# REMEDIAL INVESTIGATION WORKPLAN

AOC 16b – Marine Terminal Loading Rack Area
AOC 51 – Second Reserve Boiler AST
AOC 63 – Former Rail Lines (Vacant Land North)
AOC 81 – Former Marine Terminal Building
AOC 85 – Marine VRU/TK-4701 and TK-4801
AOC 91 – North Dock Yard
AOC 100 – Laydown Yard
AOC 102 – Vacant Land (South)
AOC 103 – Fire Pits / Fire Training Area
AOC 105 – North/South Docks
AOC 106 – Abandoned Piling
AOC 115 – Diesel Powered Pump
AOC 116 – Diesel Powered Emergency Generator – South Dock

Hess Corporation – Former Port Reading Complex 750 Cliff Road Port Reading, Middlesex County, New Jersey NJDEP PI# 006148 ISRA Case No. E20130449 EPA ID No. NJD045445483

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#### 1.0 INTRODUCTION

On behalf of Hess Corporation (Hess), Earth Systems, Inc. (Earth Systems) has prepared this Remedial Investigation Workplan (RIW) for the following environmental Areas of Concern (AOCs) located at the Hess Corporation Former Port Reading Complex (Site or HC-PR), located at 750 Cliff Road, in Port Reading (Woodbridge Township), Middlesex County, New Jersey:

- AOC 16b Marine Terminal Loading Rack Area
- AOC 51 Second Reserve Boiler AST
- AOC 63 Former Rail Lines (Vacant Land North)
- AOC 81 Former Marine Terminal Building
- AOC 85 Marine VRU/TK-4701 and TK-4801
- AOC 91 North Dock Yard
- AOC 100 Laydown Yard
- AOC 102 Vacant Land (South)
- AOC 103 Fire Pits / Fire Training Area
- AOC 105 North / South Docks
- ACO 106 Abandoned Piling
- AOC 115 Diesel Powered Pump
- AOC 116 Diesel Powered Emergency Generator South Dock

The above listed AOCs have been grouped together for purposes of this RIW in order to expedite the remedial investigation review, approval, and reporting process. The purpose of the remedial investigation is to delineate the horizontal and vertical extent of impacts in each environmental medium for the above referenced AOCs.

A United States Geological Survey (USGS) 7.5-minute series quadrangle map (Arthur Kill, New Jersey), depicting the facility location is presented as **Figure 1** and **Figure 2** presents the Site layout.

Due to historic operations, the Site is jointly regulated by both the New Jersey Department of Environmental Protection (NJDEP) and the United States Environmental Protection Agency (USEPA). The NJDEP Industrial Site Recovery Act (ISRA) was triggered when Hess Corporation executed an agreement to sell the Port Reading Complex to Buckeye Partners (Buckeye) in 2013. The Site is regulated under USEPA's Resource Conservation and Recovery Act (RCRA).

A Preliminary Assessment Report (PAR) was submitted to the NJDEP and the USEPA on October 9, 2015. A total of 117 AOCs were identified in the PA (**Figure 3.1** through **3.5**). Earth Systems concluded that, of the total number of AOCs identified at the Site, 62 AOCs required further investigation. A Site Investigation Report (SIR) was submitted to the NJDEP and USEPA on November 7, 2015. The NJDEP provided several comment letters for the SI. The following is a list of the dates of the comment letters and responses:

NJDEP Comment Letter Date	Response to Comment (RTC) Date
August 10, 2017	December 20, 2017
June 9, 2020	July 31, 2020
December 6, 2018 (Ann Charles NJDEP)	October 19, 2020
December 6, 2018 (Jill Monroe NJDEP)	October 19, 2020
November 17, 2020	February 17, 2021

Any applicable NJDEP/USEPA comments pertaining to the above AOCs are either addressed in this RIW or will be included in the final Remedial Investigation Report (RIR), as applicable data is gathered.

In accordance with the New Jersey Technical Requirements for Site Remediation (TRSR) (7:26E-4.1d), this RIW is being submitted for approval since the Site is regulated under RCRA, in addition to being subject to reporting requirements under ISRA. This RIW is an AOC specific plan solely intended to address investigation of the above referenced AOCs.

The following RIW provides a summary of historic soil and groundwater investigation activities for the select AOCs. Following the summary, recommendations are provided that outline additional investigation activities required to delineate impacts in all effected media in order to satisfy NJDEP requirements in accordance with the TRSR, New Jersey Administrative Code (N.J.A.C.) 7:26E; N.J.A.C 7:26C, the Administrative Requirements for the Remediation of Contaminated Sites (ARRCS); New Jersey Statutes Annotated (N.J.S.A.) 58:10C-1 et seq., the Site Remediation Reform Act (SRRA); and the associated NJDEP SRRA Guidance Documents. All information obtained during the proposed remedial activities will be documented in a RIR.

#### 2.0 BACKGROUND

# 2.1 Site Description and History

The Site is an approximate 223-acre irregularly shaped parcel, situated in an industrially developed waterfront area. The Site is identified as Block 756, Lot 3; Block 756.01, Lots 1.02, 2, and 3; Block 756.02, Lots 1 and 8; Block 757, Lot 1; Block 760, Lot 6; Block 760.01, Lots 2 and 3; Block 760.02, Lots 1, 2, and 3; Block 1096.01, Lot 6; and Block 664.01, Lots 1.01 and 1.02.

The Site is located east of Cliff Road and abuts the southern property boundary of the Conrail Port Reading Rail yard. Immediately east-southeast of the Site is the Arthur Kill shipping channel, and to the southwest is the PSE&G Sewaren Generating facility. The former Port Reading Coal Docks, currently owned by Prologis Corporation, are located to the northeast. Port Reading Avenue is located to the northwest. A mixture of industrial and commercial properties are located to the west. Residential properties are located upgradient to the northwest, and an industrial property is located to the south.

The facility formerly processed low sulfur gas oils and residuals as feed to a Fluidized Catalytic Cracking Unit (FCCU) that converted gas oil into gasoline, fuel oil, and other hydrocarbon products (e.g. methane, ethane, and liquid petroleum gas). The Site operations were initiated in 1958 with a Crude Topping Unit and underwent various expansions between 1958 and 1970. In 1974, refining operations were suspended, and the facility operated only as a bulk storage and distribution terminal until 1985. In April 1985, following a retrofit, the facility resumed refining operations. The refinery portion of the facility was demolished in 2015, and currently the Site is operated only as a bulk storage and distribution terminal by Buckeye.

The following is a brief description of each AOC and historic spill addressed in this RIW:

#### AOC 16b - Marine Terminal Loading Rack Area

The marine terminal loading rack area (AOC 16b) is located on the eastern side of the Site (**Figure 4a**) and contains a truck loading rack area. The area was historically used for product transfer. The loading rack area is directly adjacent to the Second Reserve Tank Field (AOC 56), which is being addressed in a separate RIW.

#### AOC 51 - Second Reserve Boiler Aboveground Storage Tank (AST) Area

The Second Reserve Boiler AST Area (AOC 51) is located to the south of the Second Reserve Terminal Building and contains two ASTs (**Figure 4a**). The ASTs are located within a concrete block secondary containment unit with a gravel bottom. The ASTs were historically connected to two inactive boilers within the Second Reserve Terminal Building. No staining or evidence of a release of hazardous substances were observed during the 2014 PA Site inspection.

## AOC 63 - Former Rail Lines (Vacant Land North)

Based on a review of historic aerials conducted during the PA, multiple rail lines were present along the northern portion of the Site from approximately 1931 through 1966. The rail lines were identified as the Lehigh Valley - Perth Amboy Branch on historic USGS topographic maps (**Figure 4a**).

During the 2014 PA Site inspection, the land in the vicinity of the former rail lines was observed to be vegetated with grass, shrubbery, and small trees. Various types of debris were observed including former wood pilings, wood boards, gravel, bricks, asphalt, tires, metal, and plastic. No staining, stressed vegetation, or evidence of a release of hazardous substances was observed during the inspection.

#### **AOC 81 – Former Marine Terminal Building**

Based on a review of historic aerials conducted during the PA, a rectangular-shaped building was present to the east of Tank TK-1201 from approximately1957 through 1979 (**Figure 4a**). During the 2014 PA Site inspection, no evidence of the former building was observed.

#### **AOC 85 – Marine VRU/TK-4701 and TK-4801**

The Marine Vapor Recovery Unit (VRU) is located on the northeastern side of the Site (**Figure 4a**). The Marine VRU consisted of various filters, two (2) tanks (TK-4701 and TK-4801), four (4) adsorbers (D-4701A, D-4701B, D-4801A, and D-4801B), three (3) exchangers (E-4601, E-4701, and E-4801) two (2) blowers (B-4601A an B-4601B), and several compressed nitrogen canisters for the recovery and separation of olefins.

#### AOC 91 - North Dock Yard

The North Dock Yard (AOC 91) is a fenced area located to the east of AOC 100 – Laydown Yard (**Figure 4a**). During the 2014 PA inspection, the North Dock Yard was observed to be covered with gravel and used for various equipment storage. No staining or evidence of a release of hazardous substances was observed during the PA inspection.

#### AOC 100 – Laydown Yard

The laydown yard is located on the northeastern side of the Site (**Figure 4a**). The laydown yard is paved with asphalt and enclosed with a fence. The laydown yard has been historically used for various types of equipment storage since approximately 1986. No staining or evidence of a release of hazardous substances was observed during the 2014 PA Site inspection.

# AOC 102 - Vacant Land (South)

A large portion of vacant land is present on the northeastern corner of the Site (**Figure 4a**). Based on a review of historic aerial photographs conducted during the 2014 PA, this area consisted of undeveloped marshland prior to 1931. The area appeared to have been disturbed between 1972 and 1980. Numerous pieces of equipment, vehicles, and storage containers were observed on the 1986 aerial photograph.

During the 2014 PA Site inspection, the area was observed to be vegetated with grass, shrubbery, and small trees. Various types of debris were observed on the surface. No staining, stressed vegetation, or evidence of a hazardous release was observed during the 2014 inspection.

### AOC 103 - Fire Pits / Fire Training Area

Based on a review of historic aerials and input from the former Hess Fire Chief and former Health and Safety Specialist, the northeast corner of the Site was occupied by fire pits that were utilized for the training of fire and safety personnel from approximately the 1960's to the 1980's (**Figure 4a**). Fires were set using different accelerants in order to determine the correct fire suppressant to use.

#### AFFF Storage

Based on interviews with Hess personnel, AFFF was stored in the above referenced fire-fighting training area (See **Figure 4a**).

During the 2014 PA Site inspection, the area was observed to be covered with asphalt within the Laydown Yard (AOC 100). The area to the east of the Laydown Yard (AOC 100) was observed to be vegetated with grasses, shrubbery, and small trees.

#### AOC 105 - North / South Docks

During the 2014 PA Site inspection, two docks were observed along the northeast edge of the Site and extended into the Arthur Kill (**Figure 4a**). No evidence of a release of hazardous substances was observed.

According to a review of the historical documents, an unknown amount of petroleum was observed near the south dock. Hess personnel and Ken's Marine Services applied absorbent pads and weeps to remove the petroleum impacts. The release was assigned NJDEP Case No. 10-07-17-0836-07 and is identified as Historic Spill (HS) 23. This historic spill will be investigated in conjunction with AOC 105.

#### **AOC 106 – Abandoned Pilings**

Based on the review of historic aerials, three docks extended into the Arthur Kill at the northeast corner of the Site, identified in the 1940 through 1979 historic aerial photographs (**Figure 4a**). The docks appeared to be inactive in the 1980 through 2007 Aerial photographs.

During the 2014 PA Site inspection, several wood pilings were observed in the Arthur Kill and appeared to be formerly associated with the three separate docks. No evidence of a release of hazardous substances was observed.

# AOC 115 - Diesel Powered Pump

During the 2014 PA Site inspection, one diesel powered pump was observed located to the northeast of the North Dock (**Figure 4a**). The pump was located on top of an AST and used for fire suppression. No staining or evidence of a release of hazardous substances was observed in the vicinity of the pump.

# AOC 116 - Diesel Powered Emergency Generator - South Dock

During the 2014 PA Site inspection, a diesel-powered emergency generator was observed west of the South Dock (**Figure 4a**). The emergency generator was located on a concrete slab on top of an AST. During the 2014 PA inspection, staining was observed on the concrete slab in the vicinity of the supply and return piping.

#### 2.2 Site Topography and Surface Water

Topography of the Site and surrounding area is generally flat with a very gradual slope towards the Arthur Kill. The total difference in topographic relief on the developed portions of the Site is less than 5 feet. Surveyed ground surface elevations indicated that the developed portion of the property, which has an approximate total area of 223 acres, ranges in elevation from 5 to 10 feet above mean sea level (MSL) referenced to North American Vertical Datum on 1988 (NAVD88).

A detention basin (AOC 12) is located directly southwest of the AOCs addressed in this RIW. Stormwater enters the detention basin through overland flow.

# 2.3 Site Geology and Hydrogeology

The geology of the Site was determined from the data collected at the facility during the subsurface investigations and from the Geologic Map of the State of New Jersey. The Site is underlain by the Magothy and Raritan formations, which are the lowest members of the Crestaceous-age Coastal Plain physiographic sediments. The Raritan Formation consists of sands and clays of variable color and grain size, and the overlying Magothy Formation consists of dark lignitic sand and clay containing glauconite near the top. The western section of the Site is underlain by a thick clay unit, while marsh deposits underlie the eastern and southeastern sections of the Site.

The shallow unconfined water table at the Site was encountered between approximately 2 and 11 feet below ground surface (bgs). Groundwater flows predominately to the southeast in the northwest portion of the Site and in an east-southeasterly direction in the central portion of the Site. Site wells located adjacent the Arthur Kill and North Drainage Ditch are affected by tidal influences. Wells located further away from the Arthur Kill are generally unaffected by tidal influences.

Based upon the soil boring and monitoring well logs prepared for the Site, the AOCs addressed in this RIW are underlain by reddish-brown silty sand, with varying amounts of clay. Underlying this silty sand layer is a gray silty sand layer at approximately 20 feet bgs and a gray clay layer approximately 40 feet bgs. Highly weathered mudstone is present at approximately 60 bgs.

A Groundwater contour map has been included as **Figure 5**.

A total of 12 monitoring wells are associated with the investigation of groundwater impacts for the specified AOCs. The well network consists of 12 shallow monitoring wells

(installed between 2002 and 2020). The following table summarizes the construction details of these monitoring wells. A "Well Manual" is included with this submittal and contains monitoring well documentation for all Site wells (permits, records, Form A's, Form B's, and logs). The Well Manual is a stand-alone document that will be updated in real time as new wells or data are gathered and the updated Well Manual will be subsequently submitted to the NJDEP and USEPA.

Monitoring Well ID	Date Installed	Well Depth	Screened Interval/Groundwater Interval
PER-7	4/08/2002	18 ft	5 – 18 ft (shallow)
PER-8	4/08/2002	17 ft	5 – 17 ft (shallow)
TL-1	4/30/2013	14 ft	2 – 14 ft (shallow)
TL-2	5/01/2013	15 ft	2 – 15 ft (shallow)
TL-3	7/15/2013	10 ft	2 – 10 ft (shallow)
FA-1	1/9/2020	13 ft	2 – 13 ft (shallow)
FA-2	1/8/2020	14 ft	2 – 14 ft (shallow)
FA-3	1/8/2020	15 ft	2 – 15 ft (shallow)
FA-4	1/8/2020	15 ft	2 – 15 ft (shallow)
FA-5	1/8/2020	15 ft	2 – 15 ft (shallow)
FA-6	1/10/2020	15 ft	2 – 15 ft (shallow)
FA-7	1/10/2020	15 ft	2 – 15 ft (shallow)

#### 2.4 Site Conceptual Site Model

A Conceptual Site Model (CSM) is being prepared for the Site and will be submitted to NJDEP/EPA as a stand-alone document in March/April 2021. The CSM will include a discussion and associated figures depicting the transport, migration, and potential impacts to human and ecological receptors on and off the Site. The CSM will be continually updated as additional data and information are gathered across the Site and the revised/updated CSM will be subsequently submitted to the NJDEP and USEPA.

The following is a brief summary of the CSM sections that specifically pertain to the AOCs addressed in this RIW.

#### Soil Impacts

SVOCs, metals and an isolated area of PCBs were detected at concentrations in excess of soil standards during historic investigation activities. The applicable CSM figures are included in **Appendix B**.

#### **Groundwater Impacts**

A series of groundwater isopleth maps will be included with the CSM for various Contaminants of Concern (COCs). Subsurface pipelines, utilities, and the former Smith Creek channel are outlined on the isopleth maps. The isopleth maps are organized by well screen interval (shallow, intermediate, and deep). The following is a brief summary of VOC groundwater conditions in the northeastern section of the Site:

 Shallow benzene plume – there is a shallow benzene plume present in the vicinity of monitoring well TL-1 (See **Appendix B** for the applicable CSM figure)

A summary of recent groundwater analytical results for area monitoring wells is included in **Section 5.0**.

#### 3.0 REGULATORY COMPLIANCE

# 3.1 Identification of Applicable Standards

The applicable Soil Remediation Standards (SRS) for the Site are the NJDEP Residential Soil Remediation Standards (RSRS), Non-Residential Soil Remediation Standards (NRSRS), the default Impact to Groundwater (IGW) screening level, and the Groundwater Quality Standards (GWQS). For Extractable Petroleum Hydrocarbon (EPH), the applicable regulatory standard for the Site is EPH Category-2, which is determined by using the NJDEP EPH Calculator.

#### 3.2 Variance/Deviation

As per the NJDEP Field Sampling Procedures Manual (FSPM), soil samples collected for Volatile Organic Compound (VOC) analysis must be collected from an intact core to minimize potential volatilization of the sample. In accordance with Hess and Buckeye safety protocols, all soil borings must use 'soft digging' techniques from the surface to 6 or 8 feet below grade, depending on the location of the boring in relation to piping runs or tanks. 'Soft digging' techniques include the use of a hand auger and/or an air knife. Therefore, all soil samples collected from the surface to 6 (or 8) feet below grade will be collected utilizing a hand auger.

Analytical results obtained from soil samples collected in this interval will be qualified as being potentially biased low. The analytical results will be evaluated in conjunction with multiple lines of evidence in order to gain a full understanding of subsurface conditions to ensure that qualified analytical results are representative of potential VOC soil impacts. The multiple lines of evidence include:

- Direct reading instruments
- Observations of odor and color
- Staining
- Changes in lithology
- Soil properties that affect contaminant migration
- Physical and chemical nature of the contaminant
- Groundwater quality in the area

The Licensed Site Remediation Professional (LSRP) of record for the Site has determined that the soil sample collection technique described above will achieve the objectives of the remedial investigation and result in sufficient usable data to design a remedial strategy.

#### 4.0 HISTORIC SOIL INVESTIGATION ACTIVITIES

The following sections summarize the SI activities conducted in 2012 and 2014 to investigate potential soil impacts for the following AOCs:

- AOC 16b Marine Terminal Loading Rack Area
- AOC 63 Former Rail Lines (Vacant Land North)
- AOC 85 Marine VRU/TK-4701 and TK-4801
- AOC 100 Laydown Yard
- AOC 102 Vacant Land (South)
- AOC 116 Diesel Powered Emergency Generator South Dock

No SI activities were conducted for the following AOCs:

- AOC 51 Second Reserve Boiler AST Area
- AOC 81 Former Marine Terminal Building
- AOC 91 North Dock Yard
- AOC 103 Fire Pits/Fire Training Area
- AOC 105 North/South Docks
- AOC 106 Abandoned Piling
- AOC 115 Diesel Powered Pump

# 4.1 AOC 16b – Marine Terminal Loading Rack Area

A total of fourteen (14) soil borings were installed in June 2012 and October 2014 to investigate potential soil impacts for AOC 16b – Marine Terminal Loading Rack Area. Soil samples were collected from multiple depths in each boring and analyzed for EPH, VOCs, base neutrals (BNs), metals, and EPH.

Soil boring logs (2014 soil borings only) are included in **Appendix A**.

The following sections summarize the EPH, VOC, BN, and metals soil analytical results.

#### **EPH & VOC Analytical Results**

EPH was detected at concentrations ranging from non-detect to 1,920 parts per million (ppm) in the SI soil samples, which are below the applicable soil standard.

VOCs were detected in four (4) soil samples at concentrations which exceeded the default IGW screening level for benzene. No other targeted VOCs were detected at concentrations which exceeded the default IGW screening level, RSRS, and NRSRS.

The following table summarizes the EPH and VOC soil analytical results.

Sample Location	Sample Date	Depth (feet)	Total EPH	Benzene	Ethylbenzene	Methyl Tert Butyl Ether (MTBE)	Tert Butyl Alcohol (TBA)	Toluene	Xylene (total)
NJDE	P NRDCSF	RS	54,000	5	110,000	110	11,000	91,000	170,000
	EP RDCSR	_	5,100	2	7,800	320	1,400	6,300	12,000
NJD	EP IGWSS	L	-	0.005	13	0.2	0.3	7	19
TL-SS-1	6/7/2012	0.5-1.0	NA	ND	ND	ND	NA	ND	ND
TL-SS-2	6/7/2012	0.5-1.0	950	NA	NA	NA	NA	NA	NA
TL-SS-3	6/7/2012	0.5-1.0	1,260	NA	NA	NA	NA	NA	NA
TL-SS-4	6/7/2012	0.5-1.0	NA	ND	ND	ND	NA	ND	ND
TL-SS-4V	10/9/2014	5.5-6.0	143	ND	ND	ND	ND	ND	ND
TL-SS-5	6/7/2012	0.5-1.0	NA	ND	ND	ND	NA	ND	ND
TL-SS-5V	10/8/2014	6.5-7.0	710	ND	0.0161 J	ND	ND	ND	0.0210 J
TL-SS-6	6/7/2012	0.5-1.0	1,920	0.458	3.51	ND	NA	0.058 J	1.14
TL-SS-6V	10/7/2014	5.5-6.0	ND	0.0014	ND	ND	ND	ND	0.00023 J
TL-SS-7V	6/8/2012	1.5-2.0	437	ND	ND	ND	ND	ND	ND
TL-SS-8V	6/8/2012	1.5-2.0	590	ND	ND	ND	ND	ND	ND
TL-SS-8VV	10/8/2014	6.0-6.5	ND	0.00034 J	ND	ND	ND	ND	ND
TL-SS-9V	6/8/2012	1.5-2.0	NA	ND	ND	ND	ND	ND	ND
TL-SS-10V	6/8/2012	2.0-2.5	NA	0.230	0.109	ND	ND	ND	0.099 J
TL-SS-10VV	10/7/2014	19.5-20.0	24.4	0.0151	0.00029 J	0.0018	0.117	0.00076 J	0.00075 J
TL-SS-11V	6/8/2012	1.5-2.0	980	ND	ND	ND	ND	ND	ND
TL-SS-11VV	10/7/2014	12.5-13.0	ND	0.00026 J	ND	0.00062 J	0.0527	ND	ND
TL-SS-12V	6/8/2012	1.5-2.0	1,590	0.072J	0.106 J	ND	ND	ND	0.319 J
TL-SS-12VV	10/8/2014	12.5-13.0	175	ND	ND	ND	ND	ND	ND
TL-SS-13	6/18/2012	0.5-1.0	1,860	0.325	3.88	ND	ND	0.125 J	0.915
TL-SS-13V	10/7/2014	6.5-7.0	ND	0.00072	0.00021 J	ND	ND	ND	ND
TL-SS-16	10/9/2014	5.0-5.5	ND	ND	ND	ND	ND	ND	ND

ND- Non-Detect, NA – Not Analyzed, J- Estimated Concentration, -No Standard or Calculated Standard, IGWSSL applies to soil samples above the water table, which is approximately 7.5 ft.

## **BN Analytical Results**

Several polyaromatic hydrocarbons (PAHs) were detected in multiple soil samples at concentrations which exceeded the default IGW screening level, RSRS and NRSRS. No other targeted BNs were detected in any of the soil samples at concentrations which exceeded the default IGW screening level, RSRS and NRSRS. The following table summarizes the analytical results.

Sample Location	Sample Date	Depth (feet)	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Dibenz(a,h)anthracene	2-Methylnaphthalene	Phenanthrene
	JDEP NRDCSI		17	2	17	2	2,400	300,000
	IJDEP RDCSR		5	0.5	5	0.5	230	
	JDEP IGWSS		0.8	0.2	2	0.8	8	
TL-SS-1	6/7/2012	0.5-1.0	ND	ND	ND	ND	ND	ND
TL-SS-2	6/7/2012	0.5-1.0	NA	NA	NA	NA	NA	NA
TL-SS-3	6/7/2012	0.5-1.0	NA	NA	NA	NA	NA	NA
TL-SS-4	6/7/2012	0.5-1.0	0.427	0.850	0.864	0.126 J	ND	0.577
TL-SS-4V	10/9/2014	5.5-6.0	ND	ND	ND	ND	ND	ND
TL-SS-5	6/7/2012	0.5-1.0	0.408	0.929	0.883	0.159	ND	0.143
TL-SS-5V	10/8/2014	6.5-7.0	NA	NA	NA	NA	NA	NA
TL-SS-6	6/7/2012	0.5-1.0	1.93	3.05	3.40	0.246	1.26	1.55
TL-SS-6V	10/7/2014	5.5-6.0	ND	ND	ND	ND	ND	ND
TL-SS-7V	6/8/2012	1.5-2.0	0.377	ND	ND	ND	ND	0.710
TL-SS-8V	6/8/2012	1.5-2.0	0.996	ND	ND	ND	ND	2.29
TL-SS-8VV	10/8/2014	6.0-6.5	NA	NA	NA	NA	NA	NA
TL-SS-9V	6/8/2012	1.5-2.0	0.199	ND	ND	ND	ND	0.201
TL-SS-10V	6/8/2012	2.0-2.5	0.777	1.32	1.52	0.202	ND	1.17
TL-SS-10VV	10/7/2014	19.5-20.0	ND	ND	ND	ND	ND	ND
TL-SS-11V	6/8/2012	1.5-2.0	0.550	0.870	1.04	0.133J	ND	1.63
TL-SS-11VV	10/7/2014	12.5-13.0	ND	ND	ND	ND	ND	ND
TL-SS-12V	6/8/2012	1.5-2.0	4.20	8.60	8.24	0.997	ND	1.23
TL-SS-12VV	10/8/2014	12.5-13.0	NA	NA	NA	NA	NA	NA
TL-SS-13	6/18/2012	0.5-1.0	ND	ND	ND	ND	2.74	0.558 J
TL-SS-13V	10/7/2014	6.5-7.0	ND	ND	ND	ND	ND	ND
TL-SS-16	10/9/2014	5.0-5.5	ND	ND	ND	ND	ND	ND

ND- Non-Detect, NA – Not Analyzed, J- Estimated Concentration, -No Standard or Calculated Standard, IGWSSL applies to soil samples above the water table, which is approximately 7.5 ft.

## Metals Analytical Results

Select soil samples were also analyzed for metals. Manganese was detected in two (2) soil samples at concentrations which exceed the default IGW screening level. No other targeted metals were detected at concentrations which exceeded the default IGW screening level, RSRS, and NRSRS in the remaining soil samples.

The 2012 and 2014 soil sample locations are illustrated on **Figure 6a** and **Figure 6b** and the analytical data is summarized on **Figure 6a**, **Figure 6b**, and **Table 1**.

#### 4.2 AOC 63 – Former Rail Lines (Vacant Land North)

In August 2014, thirty-one (31) soil borings (VLRR-SS1 through VLRR-SS-31) were installed to investigate potential soil impacts for AOC 63 – Former Rail Lines (Vacant Land North). Soil samples were collected from each boring and analyzed for BNs, polychlorinated biphenyls (PCBs), and metals. One (1) soil sample (VLRR-SS-29) was analyzed for pesticides and three (3) soil samples were analyzed for VOCs.

Soil boring logs are included in **Appendix A**.

The following sections summarize the BN, PCBs, metals, pesticides, and VOC soil analytical results.

### **BN Analytical Results**

PAHs were detected in five (5) soil samples at concentrations which exceeded the default IGW screening level and RSRS. No other targeted BNs were detected in any of the soil samples at concentrations which exceeded the default IGW screening level, RSRS, and NRSRS. The following table summarizes the soil analytical results.

Sample ID:	Date Sampled:	Depth:	Benzo(a)anthracene	Benzo(a)pyrene	Naphthalene
N.	IDEP NRDCSRS	3	17	2	17
N	JDEP RDCSRS		5	0.5	6
N	JDEP IGWSSL	8	0.8	0.2	25
VLRR-SS-1	8/18/2014	(2.0-2.5)	0.0177 J	ND (0.011)	0.0300 J
VLRR-SS-2	8/18/2014	(3.5-4.0)	0.0406	0.0575	ND (0.0099)
VLRR-SS-3	8/19/2014	(1.5-2.0)	0.0511	0.0376	0.109
VLRR-SS-4	8/19/2014	(2.5-3.0)	0.0731	0.0638	0.0738
VLRR-SS-5	8/19/2014	(2.0-2.5)	0.247	0.167	0.108
VLRR-SS-6	8/18/2014	(1.75-2.25)	0.0273 J	0.0443	ND (0.0090)
VLRR-SS-7	8/18/2014	(4.5-5.0)	0.12	0.0615	0.07
VLRR-SS-8	8/20/2014	(2.0-2.5)	ND (0.012)	ND (0.011)	ND (0.010)
VLRR-SS-9	8/20/2014	(2.5-3.0)	ND (0.011)	ND (0.011)	ND (0.0095)
VLRR-SS-9	8/20/2014	(6.5-7.0)	ND (0.013)	ND (0.012)	ND (0.011)
VLRR-SS-10	8/19/2014	(3.0-3.5)	ND (0.012)	ND (0.011)	ND (0.010)
VLRR-SS-11	8/19/2014	(2.5-3.0)	1.53	0.844	0.195
VLRR-SS-12	8/19/2014	(2.5-3.0)	1.03	0.809	1.93
VLRR-SS-12	8/19/2014	(3.75-4.25)	0.387	0.286	0.214
VLRR-SS-14	8/19/2014	(2.0-2.5)	1.17	0.844	0.232
VLRR-SS-15	8/21/2014	(2.5-3.0)	ND (0.011)	ND (0.011)	ND (0.0095)
VLRR-SS-16	8/21/2014	(1.5-2.0)	0.0163 J	ND (0.011)	ND (0.0097)
VLRR-SS-17	8/21/2014	(4.0-4.5)	0.103	0.0303 J	ND (0.0097)
VLRR-SS-18	8/20/2014	(4.0-4.5)	0.19	0.132	0.0764
VLRR-SS-19	8/20/2014	(4.0-4.5)	0.118	0.0533	ND (0.0093)
VLRR-SS-19	8/20/2014	(5.5-6.0)	0.0488 J	0.0269 J	0.147
VLRR-SS-20	8/20/2014	(2.5-3.0)	0.0429	0.0229 J	ND (0.0092)
VLRR-SS-21	8/20/2014	(5.25-5.75)	0.0401	0.0340 J	ND (0.011)
VLRR-SS-22	8/22/2014	(1.5-2.0)	0.159	0.121	0.0250 J
VLRR-SS-23	8/21/2014	(2.5-3.0)	0.139	0.0864	0.518
VLRR-SS-24	8/21/2014	(4.5-5.0)	ND (0.013)	ND (0.012)	ND (0.011)
VLRR-SS-25	8/21/2014	(3.0-3.5)	0.118	0.0924	ND (0.0098)
VLRR-SS-26	8/21/2014	(4.0-4.5)	1.4	0.901	0.0808
VLRR-SS-27	8/21/2014	(3.0-3.5)	0.0326 J	0.0192 J	ND (0.0096)
VLRR-SS-28	8/21/2014	(2.75-3.25)	0.0371 J	0.0376 J	ND (0.011)

ND- Non-Detect, NA – Not Analyzed, J- Estimated Concentration, -No Standard or Calculated Standard, IGWSSL applies to soil samples above the water table, which is approximately 7.5 ft.

# PCBs Analytical Results

PCBs were detected in 1 soil sample (VLRR-SS-26) at a concentration exceeding the RSRS. PCBs were detected at a concentration of 0.79 ppm, in excess of the standard of 0.2 ppm.

#### Metals Analytical Results

Several metals were detected at concentrations which exceeded the default IGW screening level in multiple samples. Arsenic was also detected in three (3) soil samples at concentrations which exceeded the NRSRS. The following table summarizes the analytical results.

Sample Location	Sample Date	Depth (Feet)	Aluminum	Antimony	Arsenic	Beryllium	Chromium	Lead	Manganese	Mercury	Nickel	Silver
NJ	DEP NRDC SRS	6	-	450	19	140	-	800	5,900	65	23,000	5,700
N	JDEP RDC SRS		78,000	31	19	16	-	400	11,000	23	1,600	390
N.	JDEP IGW SSL		6,000	6	19	0.7	-	90	65	0.1	48	1
VLRR-SS-1	8/18/2014	2.0-2.5	2,850	ND (2.3)	10.6	0.45	9.9	135	147	0.055	12	ND (0.58)
VLRR-SS-2	8/18/2014	3.5-4.0	3,630	ND (2.4)	19.6	0.33	14.7	30.4	155	0.45	14.4	0.95
VLRR-SS-3	8/19/2014	1.5-2.0	1,730	ND (2.2)	11.9	ND (0.22)	10.4	47.6	90	0.093	9.5	1.5
VLRR-SS-4	8/19/2014	2.5-3.0	3,090	7.7	35.5	0.33	15.3	379	289	0.14	24.4	1.5
VLRR-SS-5	8/19/2014	2.0-2.5	1,990	3.5	11.2	ND (0.23)	8.8	128	81.9	0.11	12.9	1.6
VLRR-SS-6	8/18/2014	7.75-2.25	10,800	ND (2.0)	8.4	0.76	33.1	53.6	388	0.44	32.7	ND (0.50)
VLRR-SS-7	8/18/2014	4.5-5.0	5,350	ND (2.6)	17.4	0.5	22	131	185	0.11	17.6	ND (0.64)
VLRR-SS-8	8/20/2014	2.0-2.5	11,200	ND (2.3)	4.5	1.5	23.9	13	361	ND (0.039)	35.1	ND (0.56)
VLRR-SS-9	8/20/2014	2.5-3.0	12,900	ND (2.2)	4.2	0.72	25	11.6	186	ND (0.034)	21.1	ND (0.56)
VLRR-SS-9	8/20/2014	6.5-7.0	2,750	ND (2.0)	2	0.3	10.5	7	73.9	0.087	10.5	ND (0.50)
VLRR-SS-10	8/19/2014	3.0-3.5	3,480	ND (2.4)	3.9	ND (0.24)	10.9	28.1	81.5	0.048	10	1.1
VLRR-SS-11	8/19/2014	2.5-3.0	5,520	2.7	17.1	0.4	21.1	167	234	0.099	25.8	2.3
VLRR-SS-12	8/19/2014	2.5-3.0	11,900	ND (2.2)	12.9	0.66	47.7	54.4	267	0.06	24.5	1.5
VLRR-SS-12	8/19/2014	3.75-4.25	6,970	ND (2.9)	16.4	0.42	29.9	50.1	157	0.074	14.7	2
VLRR-SS-14	8/19/2014	2.0-2.5	9,220	ND (2.2)	13.8	0.48	30.8	66.6	287	0.14	22.6	1.9
VLRR-SS-15	8/21/2014	2.5-3.0	8,610	ND (2.2)	5.5	0.64	17.3	11.1	769	ND (0.033)	17.2	0.84
VLRR-SS-16	8/21/2014	1.5-2.0	4,490	ND (2.1)	4.3	0.27	14.8	12.8	85.2	0.055	8.2	0.66
VLRR-SS-17	8/21/2014	4.0-4.5	10,400	ND (2.4)	5.7	0.68	28.2	16.7	306	0.082	20.3	0.87
VLRR-SS-18	8/20/2014	4.0-4.5	7,400	ND (2.3)	10.8	0.59	68.7	48.6	255	0.17	25	1
VLRR-SS-19	8/20/2014	4.0-4.5	5,790	ND (2.3)	5.1	0.39	24	21.7	237	0.046	13.1	0.76
VLRR-SS-19	8/20/2014	5.5-6.0	2,260	3.4	29.4	0.4	11.7	174	88.4	0.24	9.6	1.2
VLRR-SS-20	8/20/2014	2.5-3.0	7,200	ND (2.3)	8.6	0.56	88.7	55.1	529	0.11	19	0.92
VLRR-SS-21	8/20/2014	5.25-5.75	3,510	ND (2.4)	16	0.44	46.5	156	115	0.11	19.1	ND (0.60)
VLRR-SS-22	8/22/2014	1.5-2.0	3,600	ND (2.2)	4.8	0.37	15.3	31.2	48.2	0.069	7.7	ND (0.54)
VLRR-SS-23	8/21/2014	2.5-3.0	6,250	ND (2.1)	4.9	0.71	22.8	40.8	223	0.04	21.1	0.62
VLRR-SS-24	8/21/2014	4.5-5.0	9,920	ND (2.1)	4.6	0.97	22.7	13.9	317	ND (0.038)	23.7	0.75
VLRR-SS-25	8/21/2014	3.0-3.5	7,220	ND (2.1)	6	1.4	56.9	188	334	0.089	84.1	0.88
VLRR-SS-26	8/21/2014	4.0-4.5	11,700	2.4	13.8	1.8	105	300	207	0.21	108	0.58
VLRR-SS-27	8/21/2014	3.0-3.5	8,320	ND (2.3)	6	0.57	25.1	57.1	219	0.063	20.7	0.97
VLRR-SS-28	8/21/2014	2.75-3.25	5,210	ND (2.3)	10.6	0.44	16.5	33.2	133	0.049	17	0.86

ND- Non-Detect, NA – Not Analyzed, J- Estimated Concentration, -No Standard or Calculated Standard, IGWSSL applies to soil samples above the water table, which is approximately 7.5 ft.

#### Pesticides Analytical Results

One soil sample (VLRR-SS-29) was analyzed for pesticides. Pesticides were not detected at concentrations which exceeded the default IGW screening level, RSRS, and NRSRS.

# VOC Analytical Results

Three soil samples (VLRR-SS-29, VLRR-SS-30, and VLRR-SS-31) were analyzed for VOCs. Targeted VOCs were not detected in any of the samples at concentrations which exceeded the default IGW screening level, RSRS, and NRSRS.

The August 2014 soil sample locations are illustrated on **Figure 6a** and **Figure 6b** and the analytical data is summarized on **Figure 6a**, **Figure 6b**, and **Table 2**.

#### 4.3 AOC 85 – Marine VRU/TK-4701 and TK-4801

In August 2014, six (6) soil borings (MRVU-SS-1 through MRVU-SS-6) were installed to investigate potential soil impacts for AOC 85 – Marine VRU/TK-4701 and TK-4801. Soil samples were collected from each boring and analyzed for EPH, VOCs, and select samples for BNs.

Soil boring logs are included in **Appendix A**.

The following sections summarize the EPH, VOC, and BN soil analytical results.

#### **EPH & VOC Analytical Results**

EPH was detected at concentrations ranging from non-detect to 3,010 ppm in the SI soil samples, which are below the applicable soil standard.

VOCs were not detected at concentrations which exceeded the RSRS and NRSRS in any of the soil samples.

#### **BN Analytical Results**

The highest EPH concentrations were detected in soil samples MVRU-SS-4 and MVRU-SS-5; therefore, these soil samples were also analyzed for BNs. Several PAHs were detected at concentrations which exceeded the default IGW screening level, RSRS, and NRSRS. No other targeted BN were detected in any of the soil samples at concentrations which exceeded the default IGW screening level, RSRS, and NRSRS. The following table summarizes the analytical results.

Sample ID:	Date Sampled:	Depth:	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Dibenzo(a,h)anthracene	Naphthalene
NJI	DEP NRDCSRS		17	2	17	2	17
N.	IDEP RDCSRS		5	0.5	5	0.5	6
N.	JDEP IGWSSL		0.8	0.2	2	0.8	25
MVRU-SS-4	8/26/2014	8.5-9.0	3.32	3.04	1.57	0.662	ND (0.011)
MVRU-SS-5	8/26/2014	9.0-9.5	0.472	0.352	0.169	0.0485	0.044

ND- Non-Detect, NA – Not Analyzed, J- Estimated Concentration, -No Standard or Calculated Standard, IGWSSL applies to soil samples above the water table, which is approximately 7.5 ft.

The August 2014 soil sample locations are illustrated on **Figure 6a** and **Figure 6b** and the analytical data is summarized on **Figure 6a**, **Figure 6b**, and **Table 3**.

## 4.4 AOC 100 – Laydown Yard & AOC 103 – Fire Pits/Fire Training Area

As part of the investigation of AOC 103 – Fire Pits/Fire Training Areas, fourteen (14) soil borings (FP-SS-1 through FP-SS-14) were advanced in August and September 2014. Since AOC 103 is located within the boundaries of AOC 100, the AOC 103 analytical data is being used to evaluate potential soil impacts related to both AOCs. Soil samples were collected from each boring and analyzed for EPH with contingent analysis for VOCs, BN, PCBs, and metals.

Soil boring logs are included in **Appendix A**.

The following sections summarize the EPH, VOC, BN, PCB, and metals soil analytical results.

# **EPH & VOC Analytical Results**

EPH was detected at concentrations ranging from non-detect to 9,550 ppm in the SI soil samples. Contingent analysis was conducted on seven (7) of the soil samples with the highest EPH concentrations.

VOCs were not detected at concentrations which exceeded the default IGW screening level, RSRS, and NRSRS in any of the soil samples.

#### BN Analytical Results

Two PAH compounds were detected in soil sample FP-SS-1 at concentrations which exceeded the default IGW screening level and RSRS. No other targeted BNs were detected in any of the soil samples at concentrations which exceeded the default IGW screening level, RSRS, and NRSRS.

Sample ID:	Date Sampled:	Depth:	Benzo(a)anthracene	Benzo(a)pyrene
N.	IDEP NRDCS	RS	17	2
N	JDEP RDCSI	RS	5	0.5
N	JDEP IGWS	SL	0.8	0.2
FP-SS-1	8/25/2014	3.5-4.0	0.817	0.823

ND- Non-Detect, NA – Not Analyzed, J- Estimated Concentration, -No Standard or Calculated Standard, IGWSSL applies to soil samples above the water table, which is approximately 7.5 ft.

#### PCBs Analytical Results

PCBs were not detected in any of the soil samples.

## Metals Analytical Results

Multiple soil samples contained metals at concentrations which exceeded the default IGW screening level. Arsenic was detected in one soil sample at a concentration which exceeded the NRSRS. The following table summarizes the analytical results.

Sample ID:	Date Sampled:	Depth:	Arsenic	Beryllium	Cadmium	Calcium	Chromium	Lead	Manganese	Mercury	Nickel	Selenium	Silver
NJE	NJDEP NRDCSRS			140	78	•	-	800	5900	65	23000	5700	5700
NJ	NJDEP RDCSRS			16	78	•	-	400	11000	23	1600	390	390
N.	NJDEP IGWSSL		19	0.7	2	-	-	90	65	0.1	48	11	1
FP-SS-1	8/25/2014	3.5-4.0	83.2	0.97	2.6	3,030	98.6	227	376	3.3	45.8	11.4	2
FP-SS-3	8/25/2014	6.5-7.0	6	0.34	ND (0.53)	ND (530)	15.1	5.5	88.7	0.047	13	ND (2.1)	ND (0.53)
FP-SS-4	8/25/2014	3.0-3.5	6	0.39	ND (0.55)	ND (550)	11.6	5.3	69.9	ND (0.036)	7.3	ND (2.2)	0.57
FP-SS-6	8/25/2014	4.5-5.0	8.8	0.37	ND (0.50)	547	40.3	9.6	105	ND (0.037)	9.2	ND (2.0)	ND (0.50)
FP-SS-8	8/26/2014	3.5-4.0	2.6	0.31	ND (0.55)	ND (550)	12	6.7	67.7	ND (0.032)	8.5	ND (2.2)	ND (0.55)
FP-SS-10	8/26/2014	4.5-5.0	18	0.89	1	2,990	46	45	381	0.44	27.6	ND (2.0)	ND (0.50)
FP-SS-11	9/23/2014	0.5-1.0	7.6	0.48	ND (0.55)	ND (550)	16.6	8.7	110	ND (0.036)	10.6	ND (2.2)	0.61

ND- Non-Detect, NA – Not Analyzed, J- Estimated Concentration, -No Standard or Calculated Standard, IGWSSL applies to soil samples above the water table, which is approximately 7.5 ft.

The August/September 2014 soil sample locations are illustrated on **Figure 6a** and **Figure 6b** and the analytical data is summarized on **Figure 6a**, **Figure 6b**, and **Table 4**.

# 4.5 AOC 102 – Vacant Land (South)

In August 2014, three (3) soil borings (VLLD-SS-1 through VLLD-SS-2) were installed to investigate potential soil impacts for AOC 102 – Vacant Land (South). Soil samples were collected from each boring and analyzed for VOCs, BN, metals, pesticides, and PCBs.

Soil boring logs are included in **Appendix A**.

The following sections summarize the VOC, BN, metals, pesticides, and PCB soil analytical results.

#### **VOC Analytical Results**

Targeted VOCs were not detected in any of the soil samples at concentrations exceeding the default IGW screening level, RSRS, and NRSRS.

#### **BN Analytical Results**

Benzo(a)pyrene was detected in soil sample VLLD-SS-3 at a concentration of 0.467 ppm, exceeding the default IGW screening level of 0.2 ppm. No other targeted BN were detected at concentrations which exceeded the default IGW screening level, RSRS, and NRSRS.

#### Metals Analytical Results

Multiple metals were detected over the default IGWSSL in soil sample VLLD-SS-3. Arsenic and vanadium were also detected at concentrations exceeding the RSRS in this soil sample. Beryllium and manganese were detected over the default IGW screening level in the remaining two (2) soil samples. The following table summarizes the analytical results.

Sample Location	Sample Date	Depth (Feet)	Aluminum	Arsenic	Beryllium	Cadmium	Chromium	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Vanadium
N.	IDEP NRDC SRS	3		19	140	78	-	800	5,900	65	23,000	5,700	5,700	1,100
N	IJDEP RDC SRS		7800	19	16	78	-	400	11,000	23	1,600	390	390	78
N	NJDEP IGW SSL		6000	19	0.7	2	-	90	65	0.1	48	11	1	
VLLD-SS-1	8/22/2014	3.5-4.0	3490	16.9	0.79	0.84	69.1	13.2	142	0.093	10.3	ND	ND	37.5
VLLD-SS-2	8/22/2014	3.5-4.0	3730	7.8	0.56	ND	21.4	6.6	118	ND	11.2	ND	ND	17.9
VLLD-SS-3	8/22/2014	4.5-5.0	16600	92.1	1.7	12	245	327	347	8.3	58.5	11.9	6.2	78.5

ND- Non-Detect, NA – Not Analyzed, J- Estimated Concentration, -No Standard or Calculated Standard, IGWSSL applies to soil samples above the water table, which is approximately 7.5 ft.

#### Pesticides Analytical Results

Pesticides were not detected in any of the soil samples at concentrations exceeding the default IGW screening level, RSRS, and NRSRS.

#### PCBs Analytical Results

Total PCBs were detected in soil sample VLLD-SS-3 at a concentration of 2.41 ppm, exceeding the NRSRS of 1 ppm. PCBs were not detected in the remaining two (2) soil samples at concentrations exceeding the default IGW screening level, RSRS, and NRSRS.

The August 2014 soil sample locations are illustrated on **Figure 6a** and **Figure 6b** and the analytical data is summarized on **Figure 6a**, **Figure 6b**, and **Table 5**.

# 4.6 AOC 116 - Diesel Powered Emergency Generator - South Dock

In July 2015, four (4) soil borings (DPG1-SS-1 through DPG1-SS-4) were installed to investigate potential soil impacts for AOC 116 – Diesel Powered Emergency Generator – South Dock. Soil samples were collected from each boring and analyzed for EPH and contingent analysis.

EPH was detected at concentrations ranging from non-detect to 123 ppm, which is below the applicable soil standard. Based on the low concentrations of EPH detected in the soil samples, no additional contingent analysis was required.

The July 2015 soil sample locations are illustrated on **Figure 6a** and **Figure 6b** and the analytical data is summarized on **Figure** 6a, Figure 6b, and **Table 6**.

# 4.7 Soil Investigation Conclusions

Soil investigation activities were conducted for the following AOCs in 2012 and 2014:

- AOC 16b Marine Terminal Loading Rack Area
- AOC 63 Former Rail Lines (Vacant Land North)
- AOC 85 Marine VRU/TK-4701 and TK-4801
- AOC 100 Laydown Yard
- AOC 102 Vacant Land (South)

AOC 116 – Diesel Powered Emergency Generator – South Dock

# VOC

No significant VOCs were detected in any of the soil samples collected during the SI for the specified AOCs. However, high PID readings were encountered in several soil borings installed during the investigation of AOC 63 and no soil samples were collected for VOC analysis from these soil borings. Therefore, additional soil investigation is recommended to address potential VOC soil impacts for AOC 63.

#### BNs & Metals

Various BN and metals were detected in multiple soil samples. These compounds are most likely attributable to the presence of historic fill. Regardless of the source of these impacts, the final remedial strategy to address these impacts will include the use of institutional and engineering controls. Therefore, additional soil investigation is recommended to collect sufficient analytical data to support the final remedial strategy.

#### **PCBs**

Remedial soil investigation is required to vertically and horizontally delineate PCB impacts encountered in AOC 63 and AOC 102.

#### 5.0 GROUNDWATER INVESTIGATION SUMMARY

During the 2012 and 2014 SI activities, a total of ten (10) temporary wells were installed as part of the investigation of AOC 16b – Marine Terminal Loading Rack Area.

The following table summarizes the temporary well construction details.

Temporary Well	Date Drilled	Total	Screened Interval
ID		Depth	
TL-TW-1	06/07/2012	12 ft	Surface to 12' below grade (bg)
TL-TW-2	06/07/2012	12 ft	Surface to 12' bg
TL-TW-3	06/07/2012	12 ft	Surface to 12' bg
TL-TW-4	06/07/2012	11 ft	Surface to 11' bg
TL-TW-5	06/07/2012	12 ft	Surface to 12' bg
TL-TW-6	06/07/2012	11 ft	Surface to 11' bg
TL-TW-13	6/18/2012	11 ft	Surface to 11'bg
TL-TW-14	10/10/2014	8 ft	Surface to 8' bg
TL-TW-15	10/10/2014	9 ft	Surface to 9' bg
TL-TW-17	10/10/2014	6.5 ft	Surface to 6.5'bg

# 5.1 AOC 16b – Marine Terminal Loading Rack Area 2012 Temporary Well Investigation

In June 2012, 7 temporary wells were installed to investigate potential groundwater impacts relating to AOC 16b – Marine Terminal Loading Rack Area. The groundwater samples were analyzed for VOCs and BNs. A summary of the temporary well construction details has been included in the above section.

The following sections summarize the groundwater analytical results.

#### **VOC Analytical Results**

Various VOCs were detected in the groundwater samples collected from all temporary wells at concentrations exceeding the GWQS. The following table summarizes the VOC analytical results.

Sampling Event	Well ID	Benzene	Chlorobenzene	Ethylbenzene	Xylenes
GWQS	S (ppb)	1	50	700	1000
Jun-12	TL-TW-1	3.67	ND	ND	ND
Jun-12	TL-TW-2	3.97	ND	3.07	ND
Jun-12	TL-TW-3	303	5.15	722	469
Jun-12	TL-TW-4	0.275	60.2	2.31	5.50
Jun-12	TL-TW-5	1610	569	12800	28700
Jun-12	TL-TW-6	1550	ND	79.4	36.1
Jun-12	TL-TW-13	66.9	ND	234	66.4

ND - Non-Detect

# **BN Analytical Results**

Several BN were detected in the groundwater samples collected from all temporary wells, excluding wells TL-TW-1 and TL-TW-2, at concentrations exceeding the GWQS. The following table summarizes the BN analytical results.

Sampling Event	Well ID	Naphthalene	2-Methylnaphthalene	Benzo[a]anthracene	Bis(2-ethylhexyl) phthalate	Benzo[b]fluoranthene	Benzo[k]fluoranthene	Benzo[a]pyrene	Indeno[1,2,3-cd]pyrene	Dibenz[a,h]anthracene
GW	QS (ppb)	300	30	0.1	3	0.2	0.5	0.1	0.2	0.3
Jun-12	TL-TW-1	0.322	ND	ND	0.400	ND	ND	ND	ND	ND
Jun-12	TL-TW-2	0.968	ND	ND	ND	ND	ND	ND	ND	ND
Jun-12	TL-TW-3	499	283	ND	ND	3.43	3.35	3.33	4.40	3.29
Jun-12	TL-TW-4	0.616	0.526	ND	1.91	ND	ND	ND	ND	ND
Jun-12	TL-TW-5	262	71.8	1.01	4.45	1.16	0.463	0.629	0.550	0.421
Jun-12	TL-TW-6	104	43.7	0.508	1.06	0.327	0.119	0.284	0.133	0.144
Jun-12	TL-TW-13	200	49.6	0.391	ND	0.154	0.122	0.231	ND	ND

ND – Non-Detect

Analytical results are summarized on Figure 7 and Table 7.

# 5.2 AOC 16b – Marine Terminal Loading Rack Area 2014 Temporary Well Investigation

In October 2014, three (3) temporary wells were installed to investigate potential groundwater impacts relating to AOC 16b – Marine Terminal Loading Rack Area. The groundwater samples were analyzed for VOCs and BNs. A summary of the temporary well construction details has been included in the above section.

#### **VOC Analytical Results**

Several VOCs were detected in the groundwater sample collected from temporary well TL-TW-15 at concentrations exceeding the GWQS. The following table summarizes the VOC analytical results.

Sampling Event	Well ID	Benzene	Ethylbenzene	Isopropylbenzene	Toluene	Xylenes
GWQS	S (ppb)	1	700	700	600	1000
Oct-14	TL-TW-14	ND	ND	ND	ND	ND
Oct-14	TL-TW-15	1490	9550	4140	12200	68400
Oct-14	TL-TW-17	ND	ND	ND	ND	ND

ND – Non-Detect

#### **BN Analytical Results**

BNs were detected in the groundwater samples collected from all temporary wells, excluding well TL-TW-17, at concentrations exceeding the GWQS. The following table summarizes the BN analytical results.

Sampling Event	Well ID	1,1-Biphenyl	Fluorene	2-Methyl Naphthalene	Naphthalene	Pyrene	Benzo(a)anthracene	Chrysene
GWQS	(ppb)	400	300	30	300	200	0.1	5
Oct-14	TL-TW-14	ND	ND	ND	ND	0.773	0.12	0.19
Oct-14	TL-TW-15	8120	3130	98500	23300	1300	85	135
Oct-14	TL-TW-17	ND	ND	ND	ND	ND	ND	ND

ND – Non-Detect

Analytical results are summarized on Figure 7 and Table 7.

## 5.3 Permanent Monitoring Wells - Groundwater Sampling Results

Groundwater monitoring wells installed between 2002 and 2020 were utilized to assess the Sitewide groundwater quality. A summary of the monitoring wells specifications can be found in **Section 2.3** and in the Well Manual.

Groundwater samples were collected via low-flow sampling methodology in accordance with the NJDEP's *FSPM*. Earth Systems is certified by the NJDEP Office of Quality Assurance (OQA) for analysis of "analyze immediately" parameters (NJ Lab ID No. 13040).

Groundwater samples were collected in laboratory supplied glassware and transferred to SGS-Accutest Laboratories (SGS) of Dayton, New Jersey (NJ NELAP Certification No. 12129) under strict chain of custody procedures.

Prior to groundwater purging, the pump intake depth placement was determined by water level, screen depth, and contaminants of concern. The depth of the pump was recorded on the low-flow field worksheets. Groundwater purging was conducted at each well utilizing a Monsoon submersible pump with Teflon-lined 1/4 inch polyethylene tubing. Groundwater field parameters were collected using a Horiba U-52 water quality meter and flow cell. The Horiba U-52 is calibrated by both the rental company as well as by field personnel. The Horiba is calibrated in accordance with the manufacturer's instructions and in accordance with Earth Systems' Standard Operating Procedures. The field parameters monitored include temperature, conductivity, dissolved oxygen, turbidity, redox potential and pH. Groundwater elevation measurements were collected utilizing a Solinist oil/water interface probe. Groundwater elevations are recorded prior to pump placement and continuously during well purging. The total depth of the well is measured either 48 hours prior to well sampling or at the conclusion of well sampling as noted in the well sampling field sheets. During well purging, the monitored parameters are measured every 5 minutes until three consecutive stable readings are recorded. In accordance with the FSPM Section 6.9.2.2.5.2, the following values are utilized to determine stability for the monitored parameters:

- pH +/- 0.1 unit
- Specific Conductance +/- 3%
- Temperature +/- 3%
- Dissolved Oxygen +/- 10%
- Turbidity +/- 10% for values greater than 1 NTU
- ORP +/- 10 millivolts
- Water level drawdown <0.3 feet</li>

The parameter readings and the water level drawdown were recorded on the low-flow field worksheets. Any variances were also recorded on the low-flow stabilization sheets.

Prior to and at the completion of groundwater sampling of each monitoring well, the Horiba U-52 water quality meter, flow cell, and submersible pump are properly decontaminated using Alconox and a distilled or deionized water rinse. Tubing is discarded after sampling of each well and is not reused.

The following section summarizes the most recent annual groundwater sampling results (2020) followed by a summary of historic groundwater analytical results (2016 through 2019) for the above referenced monitoring wells.

Groundwater sampling documentation from 2016 through 2019 has been submitted in previous Quarterly Reports and workplans. Groundwater sampling field worksheets and calibration documentation from the 2020 sampling event is included as **Appendix D**.

#### 2020 Annual Groundwater Sampling Analytical Results

# VOC Analytical Results

Benzene was detected in the groundwater samples collected from wells FA-5, TL-2, and TL-3 at concentrations exceeding the GWQS. No other targeted VOCs were detected exceeding the GWQS during the 2020 sampling event. The following table summarizes the VOC analytical results.

Sampling Event	Well ID	Benzene
GWQS	1	
12/2/2020	FA-1	ND
12/2/2020	FA-2	ND
12/4/2020	FA-3	0.88
12/2/2020	FA-4	ND
12/2/2020	FA-5	1.2
12/9/2020	FA-6	ND
12/11/2020	FA-7	ND
12/9/2020	TL-1	ND
12/1/2020	TL-2	27.8
12/1/2020	TL-3	1.5
12/1/2020	PER-7	ND
12/9/2020	PER-8	ND

ND- Non-Detect

# **SVOC Analytical Results**

Benzo(a)anthracene was detected in the groundwater samples collected from wells FA-5, TL-1, TL-3, and PER-8 at concentrations exceeding the GWQS. No other targeted SVOCs were detected exceeding the GWQS during the 2020 sampling event. The following table summarizes the SVOC analytical results.

Sampling Event	Well ID	Benzo(a)anthracene
GWQS	0.1	
12/2/2020	FA-1	ND
12/2/2020	FA-2	ND
12/4/2020	FA-3	ND
12/2/2020	FA-4	ND
12/2/2020	FA-5	0.118
12/9/2020	FA-6	ND
12/11/2020	FA-7	ND
12/9/2020	TL-1	0.176
12/1/2020	TL-2	ND
12/1/2020	TL-3	0.134
12/1/2020	PER-7	ND
12/9/2020	PER-8	0.139

ND- Non-Detect

#### Metals & General Chemistry Analytical Results

Several metals were detected in the groundwater samples collected from all monitoring wells at concentrations exceeding the GWQS. Ammonia was detected in the groundwater sample collected from well FA-5 at a concentration exceeding the GWQS. The following table summarizes the analytical results.

Sampling Event	Well ID	Aluminum	Arsenic	lron	Lead	Manganese	Sodium	Nitrogen, Ammonia
GWQS	(ppb)	200	3	300	5	50	50000	3000
12/2/2020	FA-1	1100	6.7	4730	4.3	136	18500	ND
12/2/2020	FA-2	789	3.7	1440	ND	ND	19100	ND
12/4/2020	FA-3	686	38.3	47700	ND	298	13500	1300
12/2/2020	FA-4	ND	19.7	27000	ND	221	13900	1700
12/2/2020	FA-5	ND	31.4	41800	ND	223	304000	6800
12/9/2020	FA-6	ND	7.6	9530	ND	182	13600	860
12/11/2020	FA-7	1630	1.4	2720	4.5	ND	ND	ND
12/9/2020	TL-1	444	2	4550	ND	158	234000	1200
12/1/2020	TL-2	ND	7	34800	ND	461	74100	810
12/1/2020	TL-3	1160	7	6500	ND	130	250000	660
12/1/2020	PER-7	8070	7	14200	21	ND	ND	ND
12/9/2020	PER-8	ND	ND	280	ND	ND	ND	ND

ND- Non-Detect

# 2016 Through 2019 Summary of Groundwater Analytical Results

## **VOC Analytical Results**

Benzene has been historically detected in the groundwater samples collected from monitoring well TL-2 at concentrations exceeding the GWQS. Benzene was also detected in the groundwater sample collected from well TL-3 at concentrations exceeding the GWQS during the 2017 sampling event only. No other targeted VOCs were detected in the groundwater samples at concentrations exceeding the GWQS. The following table summarizes the VOC analytical results.

Sampling Event	Well ID	Benzene
GWQS	(ppb)	1
2017	TL-1	ND
2018	TL-1	ND
2019	TL-1	ND
2017	TL-2	76.6
2018	TL-2	52.8
2019	TL-2	39
2017	TL-3	3.5
2018	TL-3	0.45 J
2019	TL-3	0.75
2017	PER-7	ND
2018	PER-7	ND
2019	PER-7	ND
2017	PER-8	ND
2018	PER-8	ND
2019	PER-8	ND

ND – Non-Detect

# **BN Analytical Results**

BNs were detected in the groundwater samples collected from all monitoring wells, excluding well PER-7, at concentrations exceeding the GWQS. The following table summarizes the BN analytical results.

Sampling Event	Well ID	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Indeno(1,2,3-cd0pyrene	Bis(2-Ethylhexyl)phthalate
GWQS	(ppb)	0.1	0.1	0.1	0.2	3
2017	TL-1	ND	ND	ND	ND	ND
2018	TL-1	0.161	0.382	0.528	0.465	ND
2019	TL-1	0.163	0.0481	0.0802	0.05	ND
2017	TL-2	ND	ND	ND	ND	ND
2018	TL-2	0.024	ND	ND	ND	ND
2019	TL-2	0.159	ND	ND	ND	ND
2017	TL-3	0.65	0.43	0.48	ND	7.5
2018	TL-3	ND	ND	ND	ND	ND
2019	TL-3	0.297	ND	0.07	ND	ND
2017	PER-7	ND	ND	ND	ND	ND
2018	PER-7	ND	ND	0.048	ND	ND
2019	PER-7	ND	ND	0.056	ND	ND
2017	PER-8	0.159	0.094	0.198	ND	ND
2018	PER-8	0.202	0.337	0.621	0.33	ND
2019	PER-8	0.182	0.0836	0.169	0.084	ND

ND – Non-Detect

# Metals Analytical Results

Several metals were detected in the groundwater samples collected from all monitoring wells at concentrations exceeding the GWQS. The following table summarizes the metals analytical results.

Sampling Event	Well ID	Aluminum	Arsenic	Chromium	Iron	Lead	Manganese	Sodium
GWQS	(ppb)	200	3	70	300	5	50	50000
2017	TL-1	<200	<3.0	<10	4560	<3.0	596	613000
2018	TL-1	1990	2	<10	5490	11.4	127	176000
2019	TL-1	<200	4.3	<10	7460	<3.0	194	182000
2017	TL-2	<200	9	<10	15900	<3.0	203	161000
2018	TL-2	<200	6.5	<10	16700	<3.0	186	130000
2019	TL-2	<200	7.2	<10	12700	<3.0	157	64100
2017	TL-3	3450	9.6	10.9	17100	6	448	503000
2018	TL-3	603	1.8	<10	13600	<3.0	209	334000
2019	TL-3	4750	7.4	19.9	37300	7.2	639	1140000
2017	PER-7	58400	75	144	152000	247	607	<100000
2018	PER-7	52100	56.2	122	144000	236	542	<50000
2019	PER-7	34600	35.5	74	84500	119	272	<50000
2017	PER-8	293	8	<10	172000	5.8	224	123000
2018	PER-8	987	<1.0	<10	1770	11.5	<15	<10000
2019	PER-8	<200	<1.0	<10	314	<3.0	<15	<10000

Analytical results are summarized on Figure 8a and Table 8.

#### 5.4 Groundwater Analytical Results: PFAS Compounds

As part of the investigation of AOC 103-Fire Pits/Fire Training Area, seven (7) monitoring wells were installed and sampled in January 2020. As summarized above, groundwater samples were analyzed for VOC, BN, and metals. In addition, groundwater samples were also collected and analyzed for per- and polyfluoroalkyl substances (PFAS). A summary of PFAS groundwater data has been included below.

#### PFAS Analytical Results

Several PFAS analytes were detected in the groundwater samples collected from all monitoring wells at concentrations exceeding the GWQS. The following table summarizes the analytical results.

Sampling Event	Well ID	Perfluorohexanoic acid	Perfluoroheptanoic acid	Perfluorooctanoic acid	Perfluorononanoic acid	Perfluorode canoic acid	Perfluoroundecanoic acid	Perfluorobutanesulfonic acid	Perfluorohexanesulfonic acid	Perfluorooctanesulfonic acid
GWQS	(ppb)	•	•	0.014	0.013	-	-	-	-	0.013
1/29/2020	FA-1	3.79	1.82	0.89	ND	ND	ND	2.76	58.4	4.45
1/29/2020	FA-2	0.0095	0.0049	0.004	0.004	0.0029 J	ND	0.0047	0.0414	0.17
1/29/2020	FA-3	0.0445	0.0091	0.02	0.006	0.0044	ND	0.025	0.253	0.87
1/29/2020	FA-4	0.731	0.1	0.22	ND	ND	ND	0.437	5.73	33.8
1/29/2020	FA-5	0.0165	0.0088	0.01	0.027	0.0036	ND	0.0083	0.115	0.42
1/29/2020	FA-6	1.91	0.224	0.28	ND	ND	0.176	1.02	7.29	61.7
1/29/2020	FA-7	0.112	0.0111	0.02	0.004	0.0029 J	0.0061	0.088	0.79	1.96

ND – Non-Detect, J – Estimated Concentration

Analytical results are summarized on Figure 8b and Table 9.

#### 5.5 Light Non-Aqueous Phase Liquid (LNAPL)

Historically, neither a sheen nor Light Non-Aqueous Phase Liquid (LNAPL) has been observed in monitoring wells TL-1, TL-2, TL-3, PER-7, and PER-8. However, during the SI, observations of a sheen and possible LNAPL were observed during AOC 16b soil investigation activities.

LNAPL has been detected in monitoring wells FA-3 and FA-5 during the December 2020 and January 2021 monthly gauging. As explained in **Section 6.0**, additional investigation is recommended for both AOC 16b and 103. The potential presence of LNAPL will continue to be evaluated as part of the RI of these AOCs.

#### 5.6 Groundwater Investigation Conclusions

VOC impacts were detected in the groundwater samples collected from temporary wells during the SI phase. VOCs have not been detected at similar concentrations in permanent monitoring wells installed in the vicinity of the temporary well locations. However, benzene has been detected in monitoring wells TL-2, TL-3, and FA-5 at concentrations exceeding the GWQS during recent annual groundwater sampling events. Therefore, additional groundwater investigation is recommended.

## 6.0 INVESTIGATION SUMMARY & RECOMMENDATIONS

Based on the investigation activities conducted to date, remedial soil and groundwater investigation is required to delineate impacts present in the northeastern corner of the Site.

#### 6.1 Soil Remedial Investigation Recommendations

The recommendations for additional soil investigation in each AOC are summarized as follows:

AOC 16b – Marine Terminal Loading Rack Area
 No additional soil sampling is recommended for AOC 16b.

#### AOC 51 – Second Reserve Boiler AST

No previous soil sampling has been conducted for this AOC. Therefore, three (3) soil borings will be installed to evaluate the underlying soils in the area. Soil samples will be collected based on field observations and will be analyzed for the full Target Analyte List (TAL)/Target Compound List (TCL) and EPH. The following table summarizes the proposed borings and the soil boring locations are illustrated on **Figure 9b.** 

Boring ID	Proposed Depth	Analysis	Notes
SRB-1	10 ft	Full TAL/TCL, EPH	Investigation boring
SRB-2	10 ft	Full TAL/TCL, EPH	Investigation boring
SRB-3	10 ft	Full TAL/TCL, EPH	Investigation boring

#### AOC 63 – Former Rail Lines (Vacant Land North)

Vertical delineation is required for PCBs detected in soil sample VLRR-SS-26. In addition, elevated PID readings were detected in three (3) soil borings, however soil samples were not collected for VOC analysis. Total chromium was detected above 20 ppm in several soil samples. Therefore, four (4) soil borings are proposed to complete PCB delineation, evaluate potential VOC impacts, and determine hexavalent chromium concentrations. The following table summarizes the proposed borings and the soil boring locations are illustrated on **Figure 9a.** 

Boring ID	Proposed Depth	Analysis	Notes
VLRR-SS-3R	2 ft	VOC, Hexavalent Chromium	VOC Analysis, Chromium Determination
VLRR-SS-16R	1.5 ft	VOC	VOC Analysis

VLRR-SS-19R	4.5 ft	VOC,	VOC Analysis, Chromium
		Hexavalent	Determination
		Chromium	
VLRR-SS-26V	6.5 ft	PCBs,	Vertical Delineation, Chromium
		Hexavalent	Determination
		Chromium	

#### • AOC 81 – Former Marine Terminal Building

No previous sampling has been conducted for this AOC. Therefore, two (2) soil borings will be installed to evaluate the underlying soils in the vicinity of the former building. Soil samples will be collected based on field observations and will be analyzed for the full TAL/TCL and EPH. The following table summarizes the proposed borings and the soil boring locations are illustrated on **Figure 9b.** 

Boring ID	Proposed Depth	Analysis	Notes
FMTB-1	10 ft	EPH, full TAL/TCL	Investigation Boring
FMTB-2	10 ft	EPH, full TAL/TCL	Investigation Boring

### AOC 85 – Marine VRU/TK-4701 and TK-4801 No additional soil sampling is recommended for AOC 85.

#### AOC 91 – North Dock Yard

No previous sampling has been conducted for this AOC. Therefore, five (5) soil borings will be installed to evaluate the underlying soils in the area. Soil samples will be collected based on field observations and will be analyzed for the full TAL/TCL and EPH. The following table summarizes the proposed borings and the soil boring locations are illustrated on **Figure 9b.** 

Boring ID	Proposed Depth	Analysis	Notes
NDY-1	10 ft	EPH, full TAL/TCL	Investigation Boring
NDY-2	10 ft	EPH, full TAL/TCL	Investigation Boring
NDY-3	10 ft	EPH, full TAL/TCL	Investigation Boring
NDY-4	10 ft	EPH, full TAL/TCL	Investigation Boring
NDY-5	10 ft	EPH, full TAL/TCL	Investigation Boring

• AOC 100 – Laydown Yard & AOC 103 – Fire Pits/Fire Training Area Horizontal Delineation is required for EPH concentrations detected in soil sample FP-SS-6. In addition, LNAPL has been observed in monitoring wells FA-3 and FA-5 during the December 2020 and January 2021 gauging events. Therefore, six (6) soil borings are proposed to evaluate potential EPH and LNAPL impacts pertaining to AOC 100 and AOC 103. The following table summarizes the proposed borings and the soil boring locations are illustrated on **Figure 9b**.

Boring ID	Proposed Depth	Analysis	Notes
FP-SS-15	5 ft	EPH, Contingent Analysis	Horizontal Delineation
FP-SS-16	5 ft	EPH, Contingent Analysis	Horizontal Delineation
FP-SS-17	15 ft	EPH, Contingent Analysis	Monitoring Well LNAPL Investigation
FP-SS-18	15 ft	EPH, Contingent Analysis	Monitoring Well LNAPL Investigation
FP-SS-19	15 ft	EPH, Contingent Analysis	Monitoring Well LNAPL Investigation
FP-SS-20	15 ft	EPH, Contingent Analysis	Monitoring Well LNAPL Investigation

In addition, due to PFAS groundwater impacts (discussed in **Sections 5.4** and **6.2**) soil sampling is recommended adjacent to monitoring wells FA-1, FA-4, FA-6, and FA-7, the wells with the highest detected levels of PFAS. Therefore, sixteen (16) soil borings will be installed to evaluate potential PFAS soil impacts. Currently, there are no promulgated soil standards for PFAS in New Jersey. Therefore, the soil data will be used in conjunction with the groundwater data to evaluate potential remediation areas. Due to the lack of information regarding PFAS in soil, soil samples will be collected at multiple depths in each soil boring. Potential soil sample intervals will include the 6-inch interval above groundwater, intervals with any field indications of impacts, and at the base of the soil boring (below the groundwater table). The following table summarizes the proposed soil borings and soil boring locations are illustrated on **Figure 9c**.

Boring ID	Proposed Depth	Analysis	Notes
SBFA-1-1	15 ft	PFAS (Method	PFAS Soil Assessment
		537 - Modified)	
SBFA-1-2	15 ft	PFAS (Method	PFAS Soil Assessment
		537 - Modified)	
SBFA-1-3	15 ft	PFAS (Method	PFAS Soil Assessment
		537 - Modified)	
SBFA-1-4	15 ft	PFAS (Method	PFAS Soil Assessment
		537 - Modified)	
SBFA-4-1	15 ft	PFAS (Method	PFAS Soil Assessment
		537 - Modified)	
SBFA-4-2	15 ft	PFAS (Method	PFAS Soil Assessment
		537 - Modified)	
SBFA-4-3	15 ft	PFAS (Method	PFAS Soil Assessment
		537 - Modified)	
SBFA-4-4	15 ft	PFAS (Method	PFAS Soil Assessment
		537 - Modified)	
SBFA-6-1	15 ft	PFAS (Method	PFAS Soil Assessment
		537 - Modified)	
SBFA-6-2	15 ft	PFAS (Method	PFAS Soil Assessment
		537 - Modified)	
SBFA-6-3	15 ft	PFAS (Method	PFAS Soil Assessment
		537 - Modified)	
SBFA-6-4	15 ft	PFAS (Method	PFAS Soil Assessment
		537 - Modified)	
SBFA-7-1	15 ft	PFAS (Method	PFAS Soil Assessment
		537 - Modified)	
SBFA-7-2	15 ft	PFAS (Method	PFAS Soil Assessment
		537 - Modified)	
SBFA-7-3	15 ft	PFAS (Method	PFAS Soil Assessment
		537 - Modified)	
SBFA-7-4	15 ft	PFAS (Method	PFAS Soil Assessment
		537 - Modified)	

#### AOC 102 – Vacant Land (South)

Vertical and horizontal delineation is required for PCBs and metals detected in soil sample VLLD-SS-3. Total chromium was detected at a concentration above 20 ppm in several soil samples. Therefore, five (5) soil borings are proposed to complete PCB/metals delineation and to determine hexavalent chromium concentrations. In addition, seven (7) soil borings are proposed to assess potential soil impacts for AOC 102 based on a review historic aerial photographs (specifically the 1986 photograph). The following table summarizes the proposed borings and the soil boring locations are illustrated on **Figure 9a**.

Boring ID	Proposed Depth	Analysis	Notes
VLLD-SS-1V	4 ft	Hexavalent Chromium	Chromium Determination
VLLD-SS-3V	7 ft	PCBs, Hexavalent Chromium,	Vertical Delineation,
		Metals	Chromium Determination
VLLD-SS-4	5 ft	PCBs, Metals	Horizontal Delineation
VLLD-SS-5	5 ft	PCBs, Metals	Horizontal Delineation
VLLD-SS-6	5 ft	PCBs, Metals	Horizontal Delineation
VLLD-SS-7	5 ft	PCBs, Metals	Horizontal Delineation
VLLD-SS-8	10 ft	VOCs, SVOCs, Metals, PCBs	Investigation Boring
VLLD-SS-9	10 ft	VOCs, SVOCs, Metals, PCBs	Investigation Boring
VLLD-SS-10	10 ft	VOCs, SVOCs, Metals, PCBs	Investigation Boring
VLLD-SS-11	10 ft	VOCs, SVOCs, Metals, PCBs	Investigation Boring
VLLD-SS-12	10 ft	VOCs, SVOCs, Metals, PCBs	Investigation Boring
VLLD-SS-13	10 ft	VOCs, SVOCs, Metals, PCBs	Investigation Boring
VLLD-SS-14	10 ft	VOCs, SVOCs, Metals, PCBs	Investigation Boring

#### AOC 105 – North/South Docks

No soil sampling is recommended for AOC 105. A sediment and surface water investigation will be conducted to address this AOC (**Section 6.3**).

#### AOC 106 – Abandoned Piling

No soil sampling is recommended for AOC 106. A sediment and surface water investigation will be conducted to address this AOC (**Section 6.3**).

#### • AOC 115 - Diesel Powered Pump

No sampling has been conducted for this AOC. Therefore, one (1) soil boring will be installed to evaluate the underlying soil in AOC 115. Soil samples will be collected based on field observations and will be analyzed for EPH with contingent naphthalene and 2-methylnaphthelene analysis. The following table summarizes the proposed boring and the soil boring location is illustrated on **Figure 9b**.

Boring ID	Proposed Depth	Analysis	Notes
DPP-1	10 ft	EPH,	Investigation Boring
		Contingent	
		Analysis	

 AOC 116 – Diesel Powered Emergency Generator – South Dock No additional soil sampling is recommended for AOC 116.

#### 6.2 Remedial Groundwater Investigation

The recommendations for additional groundwater investigation in each AOC are summarized as follows:

#### AOC 16b – Marine Terminal Loading Rack Area

VOC concentrations were detected in groundwater samples collected from temporary wells installed during SI activities for AOC 16b. Therefore, two (2) additional permanent monitoring wells are proposed to further delineate VOC impacts and potential LNAPL present in AOC 16b. The following table summarizes the proposed well construction details and the monitoring well locations are illustrated on **Figure 10**.

Well ID	Proposed Depth	Analysis	Notes
TL-4	15 ft	VOC, SVOC, Metals, Ammonia	Installed in former TL-TW-
			5 location
TL-5	15 ft	VOC, SVOC, Metals, Ammonia	Delineation

#### AOC 51 - Second Reserve Boiler AST

Groundwater sampling was not conducted as part of the SI of AOC 51. Therefore, a soil boring (proposed in **Section 6.1**) will be converted into a temporary well point to assess potential groundwater impacts from the former operations of AOC 51. The following table summarizes the proposed temporary well location and the location is illustrated on **Figure 10**.

Well ID	Proposed Depth	Analysis	Notes
TW-SRB-1	15 ft	VOC, SVOC, Metals, Ammonia	Groundwater Assessment

#### • AOC 63 – Former Rail Lines (Vacant Land North)

No additional groundwater investigation is recommended for AOC 63.

#### • AOC 81 – Former Marine Terminal Building

No additional groundwater investigation is recommended for AOC 81. Monitoring wells are proposed in surrounding AOCs.

#### AOC 85 – Marine VRU/TK-4701 and TK-4801

Groundwater sampling was not conducted as part of the SI of AOC 85. Therefore, two (2) monitoring wells are proposed to be installed downgradient of AOC 85 to assess potential groundwater impacts from the former operations of AOC 85. The following table summarizes the proposed well construction details and monitoring well locations are illustrated on **Figure 10**.

Well ID	Proposed Depth	Analysis	Notes
MRVU-1	15 ft	VOC, SVOC, Metals, Ammonia	Groundwater Assessment
MRVU-2	15 ft	VOC, SVOC, Metals, Ammonia	Groundwater Assessment

#### AOC 91 – North Dock Yard

Groundwater sampling was not conducted as part of the SI of AOC 91. Therefore, a soil boring (proposed in **Section 6.1**) will be converted into a temporary well point to assess potential groundwater impacts from the former operations of AOC 91. The following table summarizes the proposed temporary well location and the location is illustrated on **Figure 10**.

Well ID	Proposed Depth	Analysis	Notes
TW-NDY-1	15 ft	VOC, SVOC, Metals, Ammonia	Groundwater Assessment

• AOC 100 – Laydown Yard & AOC 103 Fire Pits/Fire Training Area Remedial groundwater investigation activities have been proposed to address impacts present due to historic operations related to AOC 103- Fire Pits/Fire Training Area. Groundwater impacts present due to historic operations of AOC 100 will be addressed concurrently with AOC 103. The following table summarizes the monitoring wells proposed as part of the AOC 100 and AOC 103 remedial investigation and the monitoring well locations are illustrated on **Figure 10**.

Well ID	Proposed Depth	Analysis	Notes
FA-8	15 ft	VOC, SVOC, Metals, Ammonia, PFAS	Delineation
FA-9	15 ft	VOC, SVOC, Metals, Ammonia, PFAS	Delineation
FA-10	15 ft	VOC, SVOC, Metals, Ammonia, PFAS	Delineation
FA-11	15 ft	VOC, SVOC, Metals, Ammonia, PFAS	Delineation
FA-12	15 ft	VOC, SVOC, Metals, Ammonia, PFAS	Delineation
FA-13	15 ft	VOC, SVOC, Metals, Ammonia, PFAS	Delineation
FA-14	15 ft	VOC, SVOC, Metals, Ammonia, PFAS	Delineation
FA-15	15 ft	VOC, SVOC, Metals, Ammonia, PFAS	Delineation
FA-16	15 ft	VOC, SVOC, Metals, Ammonia, PFAS	Delineation

FA-17	15 ft	VOC, SVOC, Metals, Ammonia, PFAS	Delineation
FA-18	15 ft	VOC, SVOC, Metals, Ammonia, PFAS	Delineation
FA-19	15 ft	VOC, SVOC, Metals, Ammonia, PFAS	Delineation
FA-20	15 ft	VOC, SVOC, Metals, Ammonia, PFAS	Delineation

In addition to installing and sampling the above proposed new monitoring wells, groundwater samples will also be collected from existing Site wells and analyzed for PFAS compounds. The existing Site wells that will be included in the PFAS investigation are:

- SP-2
- SP-3
- BG-3
- AOC 102 Vacant Land (South)

No additional groundwater investigation is recommended for AOC 102.

#### AOC 105 – North/South Docks

No groundwater sampling is recommended for AOC 105. A sediment and surface water investigation will be conducted to address this AOC (**Section 6.3**).

#### AOC 106 – Abandoned Piling

No groundwater sampling is recommended for AOC 106. A sediment and surface water investigation will be conducted to address this AOC (**Section 6.3**).

#### AOC 115 – Diesel Powered Pump

Groundwater sampling was not conducted as part of the SI of AOC 91. Therefore, a soil boring (proposed in **Section 6.1**) will be converted into a temporary well point to assess potential groundwater impacts from the former operations of AOC 91. The following table summarizes the proposed temporary well location and the location is illustrated on **Figure 10**.

Well ID	Proposed Depth	Analysis	Notes
TW-DPP-1	15 ft	VOC, SVOC, Metals, Ammonia	Groundwater Assessment

• AOC 116 – Diesel Powered Emergency Generator – South Dock No additional groundwater investigation is recommended for AOC 116.

#### 6.3 Sediment & Surface Water Investigation

As part of the Sitewide Ecological Evaluation (EE), potential contaminant migration pathways to the Arthur Kill need to be evaluated. Potential migration pathways include historical industrial wastewater discharges, surface water and overland flow, diffuse flow

of shallow groundwater, and historic releases. Therefore, the collection of sediment and surface water samples along the Arthur Kill is recommended.

- Sediment and surface water sampling will be conducted utilizing the same protocols that were used when sampling Smith Creek and the onsite Detention Basin
- Sampling will be conducted at low tide
- Sediment samples will be collected from fifteen (15) locations and surface water samples will be collected from eight (8) locations along the Arthur Kill (Figure 11a)
- Sediment samples will be collected utilizing a Vibracore device to approximately 10-feet below the sediment bed
- Sediment samples will be collected at 3 depths [surface (0 to 6 inches), near surface (6 to 12 inches), and biased towards any indications of impacts
- Sediment samples will be analyzed for TLC VOCs, TCL SVOCs, TAL Metals, EPH, Total Organic Carbon (TOC), pH, and grain size
- Surface water samples will be collected approximately 1-foot from the river bottom via direct grab
- Surface water samples will be analyzed for TCL VOCs, TCL SVOCs, and TAL Metals (total recoverable and dissolved)
- Surface water samples will be collected prior to sediment samples to minimize disturbance of the samples
- Additional sediment and surface water samples will also be collected from reference locations both upriver and downriver of the Site (Figures 11b and 11c)

#### 6.4 Contingency Investigations

As described above, based on existing groundwater and soil data, additional sampling is necessary to delineate impacts pursuant to NJDEP regulations (TRSR 7:26E-4.1). Specific locations have been proposed for monitoring wells and soil samples with the understanding that these are optimal locations (based on existing data) to allow for the delineation of impacts and complete the remedial investigation of the specified AOCs. However, the proposed locations may need to be adjusted in the field based on any encountered obstructions or refusal. In addition, data derived from the new groundwater and soil samples may indicate that additional sampling is still necessary to delineate impacts and serve to complete the remedial investigation. If additional sampling is warranted, the LSRP of record will make a determination (based on existing data) of where additional sampling points are needed and analytical data necessary to complete delineation pursuant to NJDEP technical regulations. Implementation of the new scope will move forward immediately without the submittal of additional workplans.

#### 6.5 Quality Assurance Project Plan

Samples will be collected in accordance with the sampling procedures outlined in the Quality Assurance Project Plan (QAPP), which is included as **Appendix C**. Groundwater samples will be collected via low-flow sampling methodology in accordance with the NJDEP's *FSPM*. Earth Systems is certified by the NJDEP Office of Quality Assurance

(OQA) for analysis of "analyze immediately" parameters (NJ Lab ID No. 13040). Groundwater samples will be collected in laboratory supplied glassware and transferred to SGS-Accutest Laboratories (SGS) of Dayton, New Jersey (NJ NELAP Certification No. 12129) under strict chain of custody procedures.

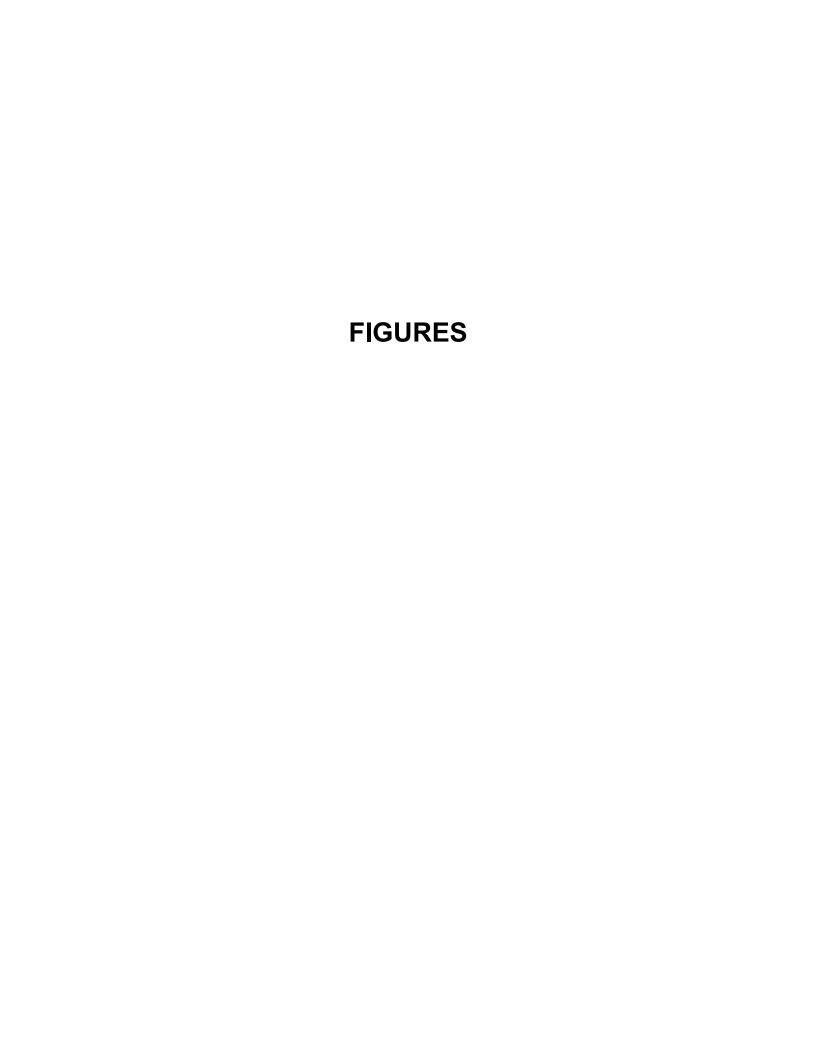
The QAPP will provide guidance to the project team to ensure all field activities are completed in a manner consistent with the NJDEP and USEPA requirements and that all data produced is of sufficient quality to meet required standards. Analytical data packages will be presented in the New Jersey Reduced Deliverables format, including electronic data deliverables (EDDs).

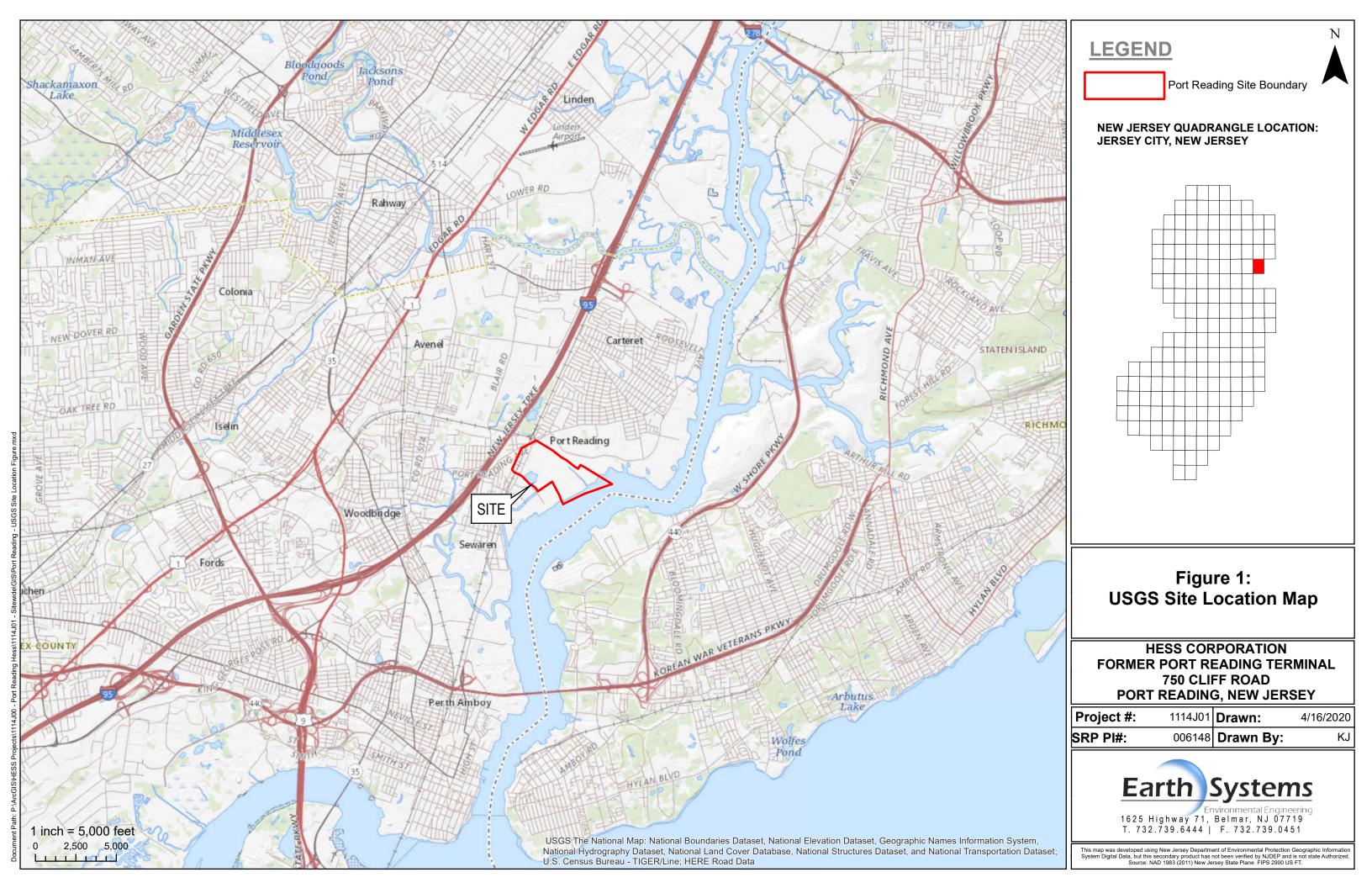
#### 6.6 Health and Safety Plan

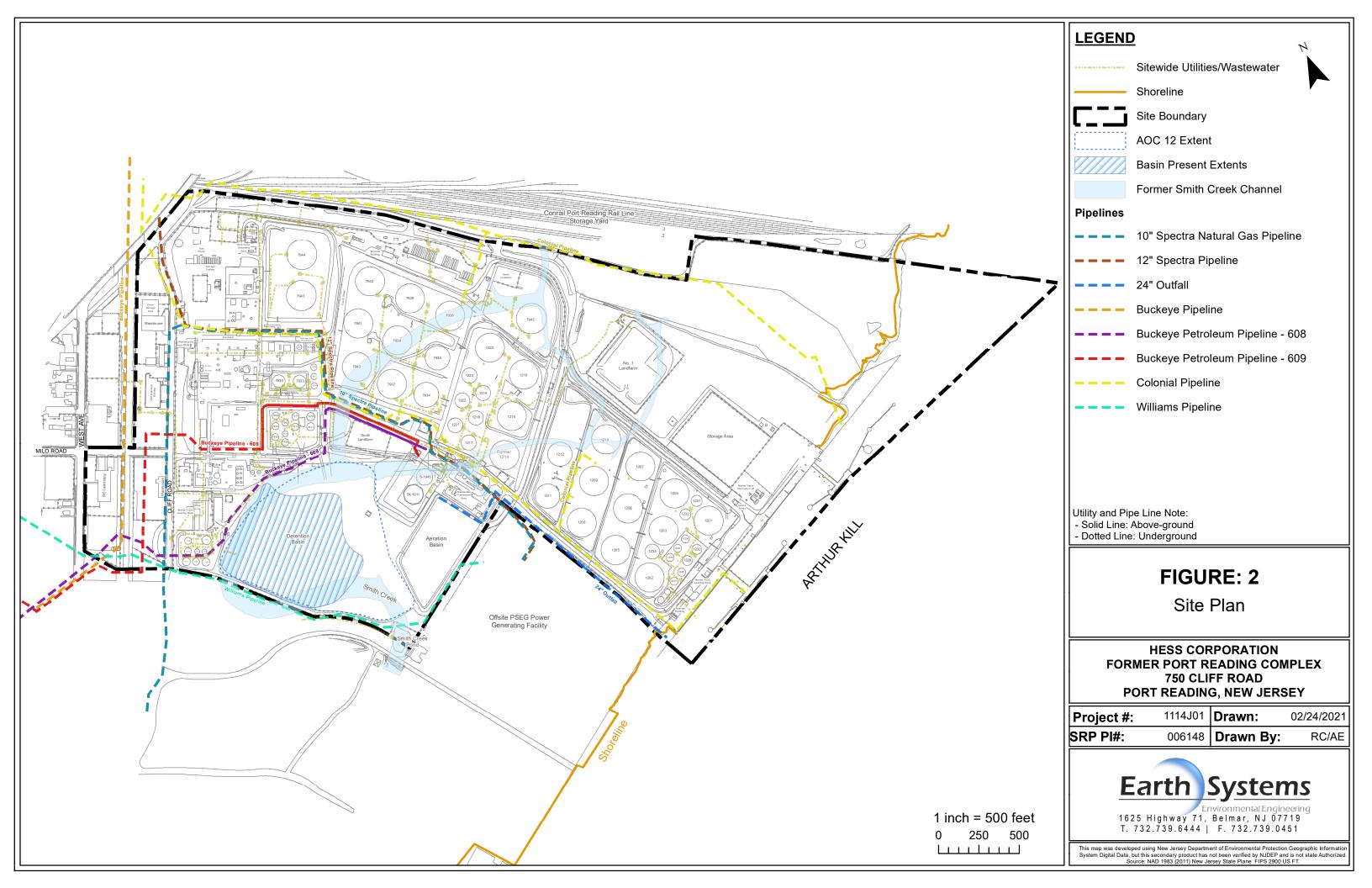
A Site-specific HASP will be prepared in accordance with NJAC 7:26E-1.9. All Site personnel will be informed prior to performing any site activities of all health and safety protocols.

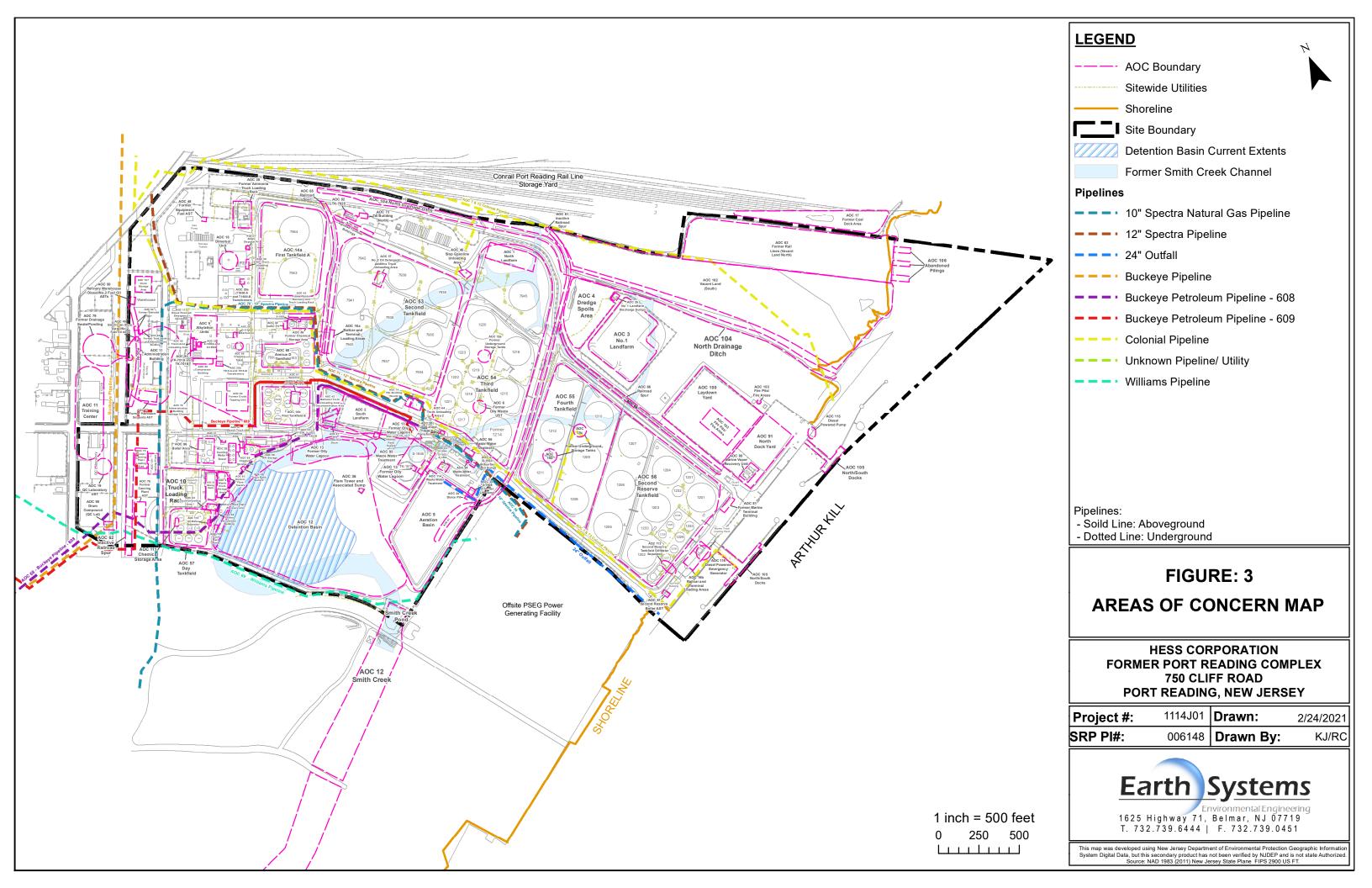
#### 7.0 SCHEDULE

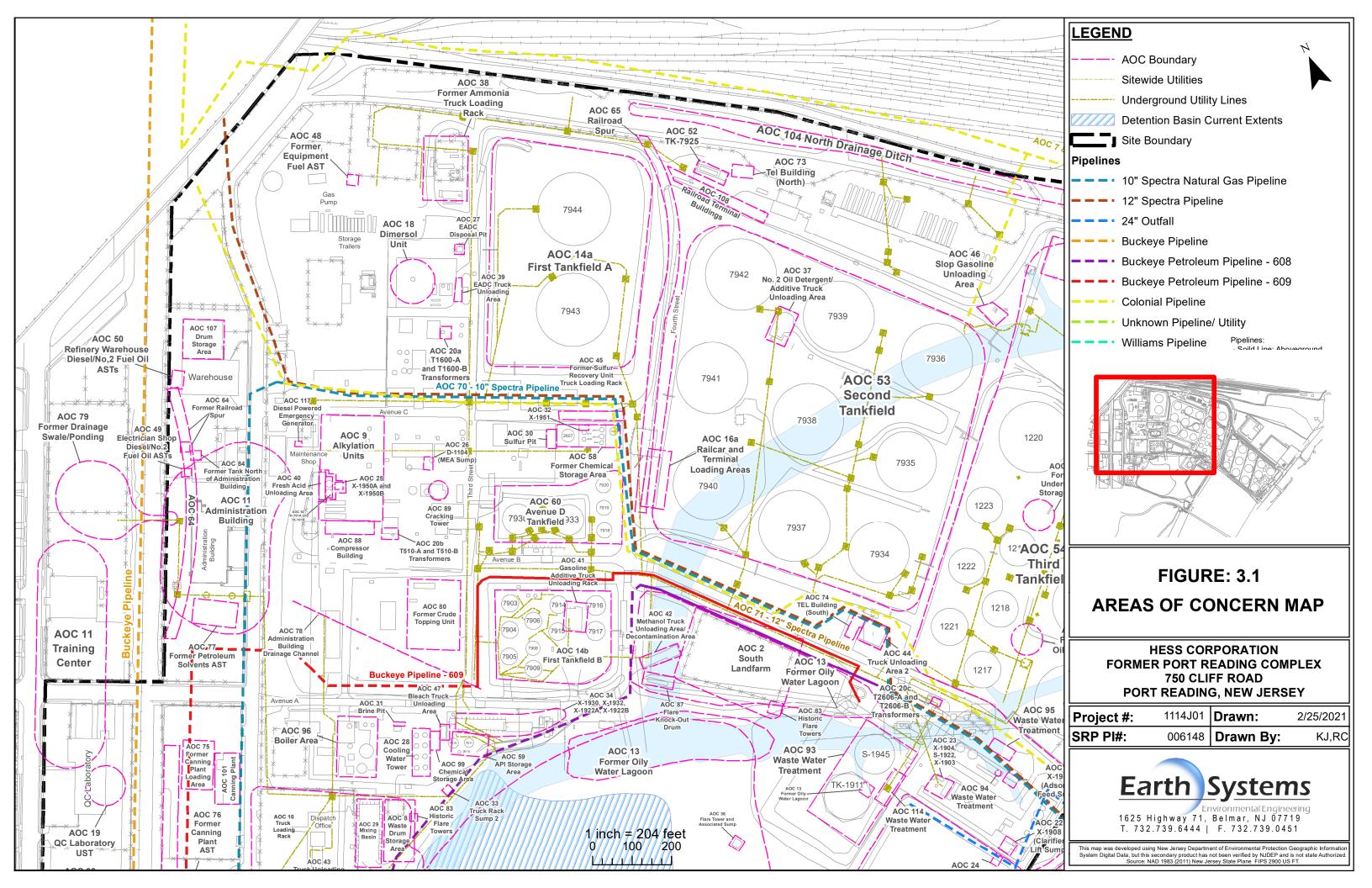
Hess will provide the NJDEP and USEPA with a minimum of 14 days of notice for all field activities prior to commencement of work pending approval of the RIW. Hess is prepared to immediately implement the workplan pending approval by the NJDEP and USEPA. Hess will provide the NJDEP and USEPA with the analytical results of the investigation in a final RIR.

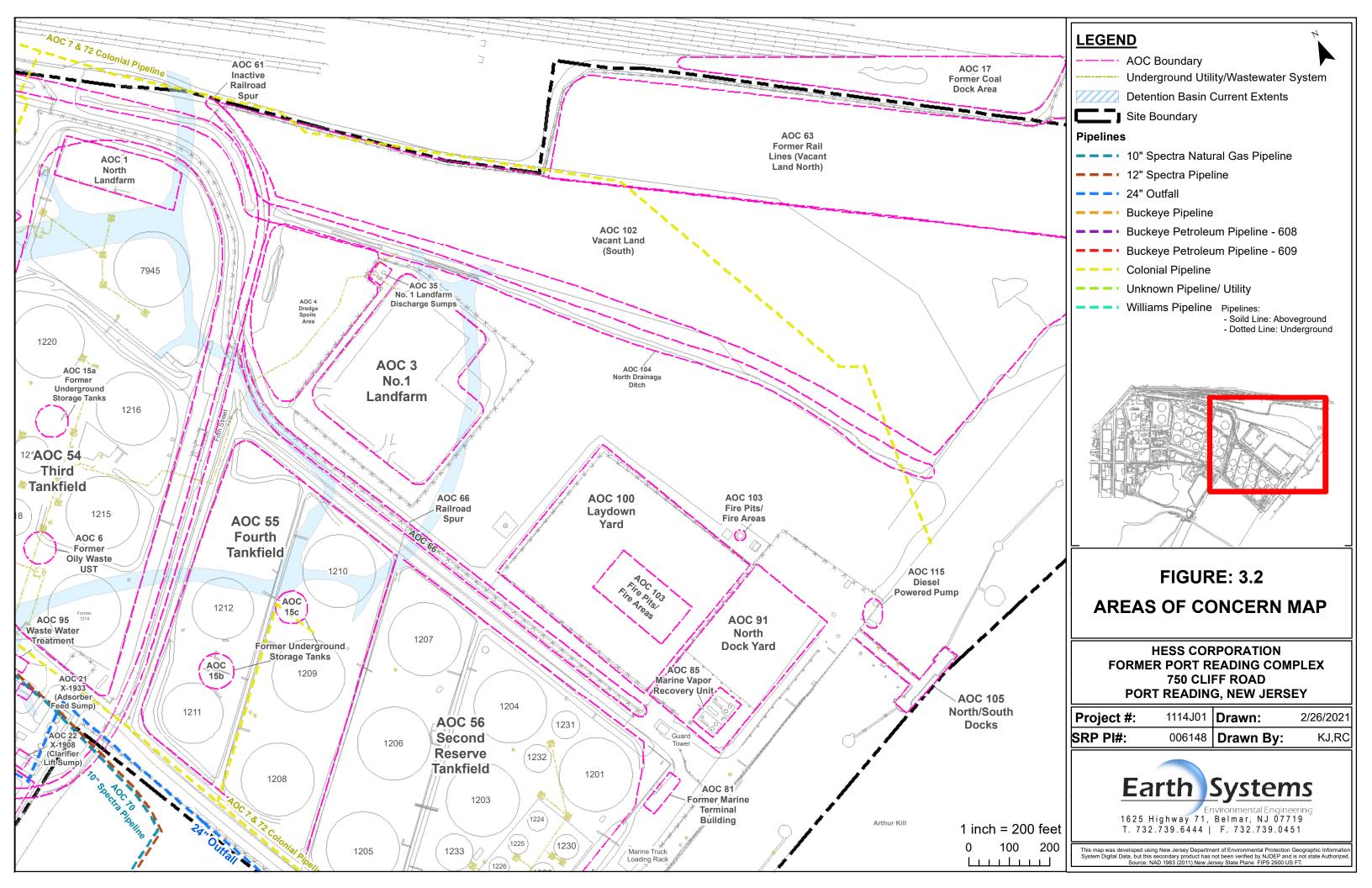


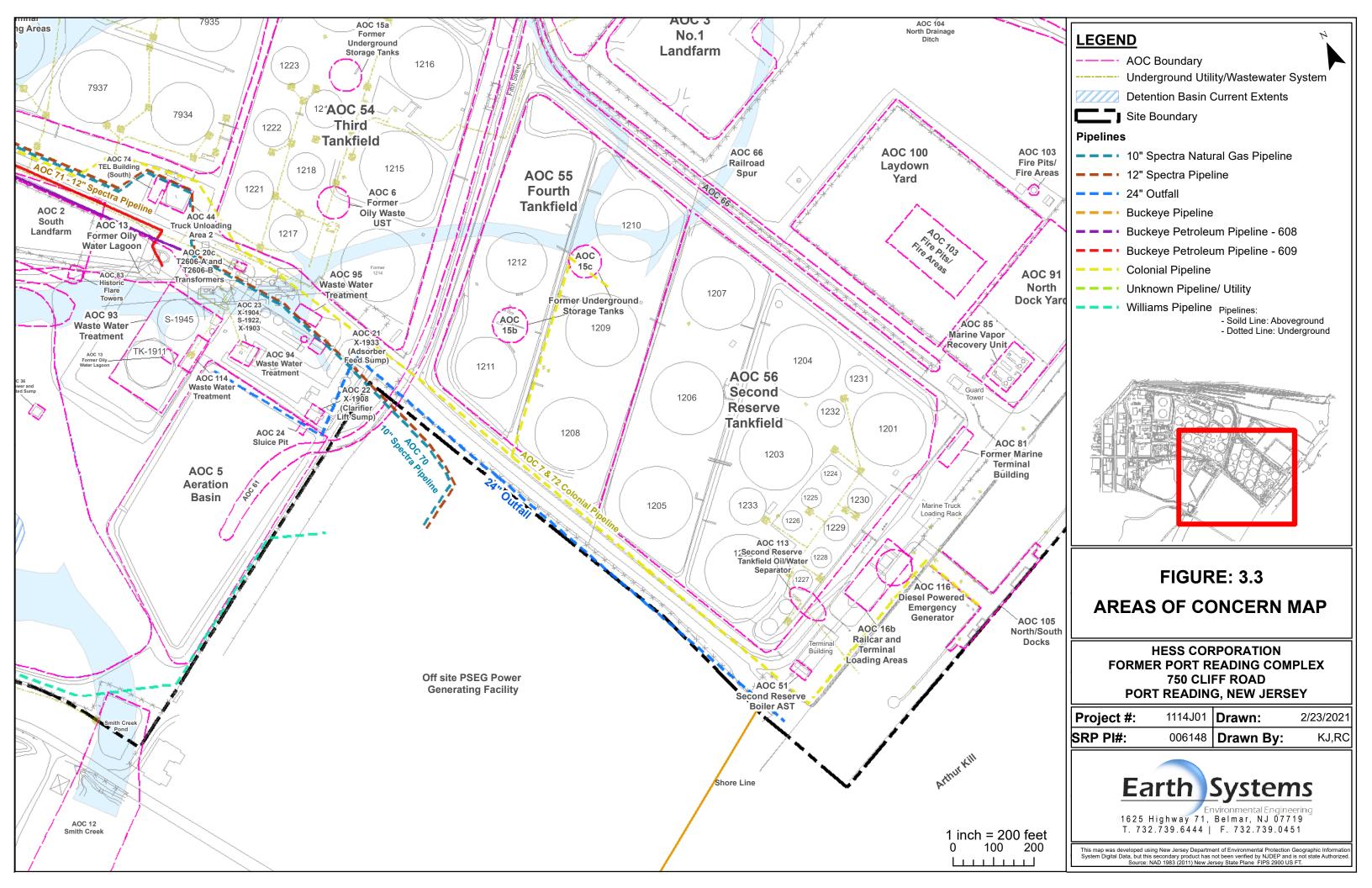


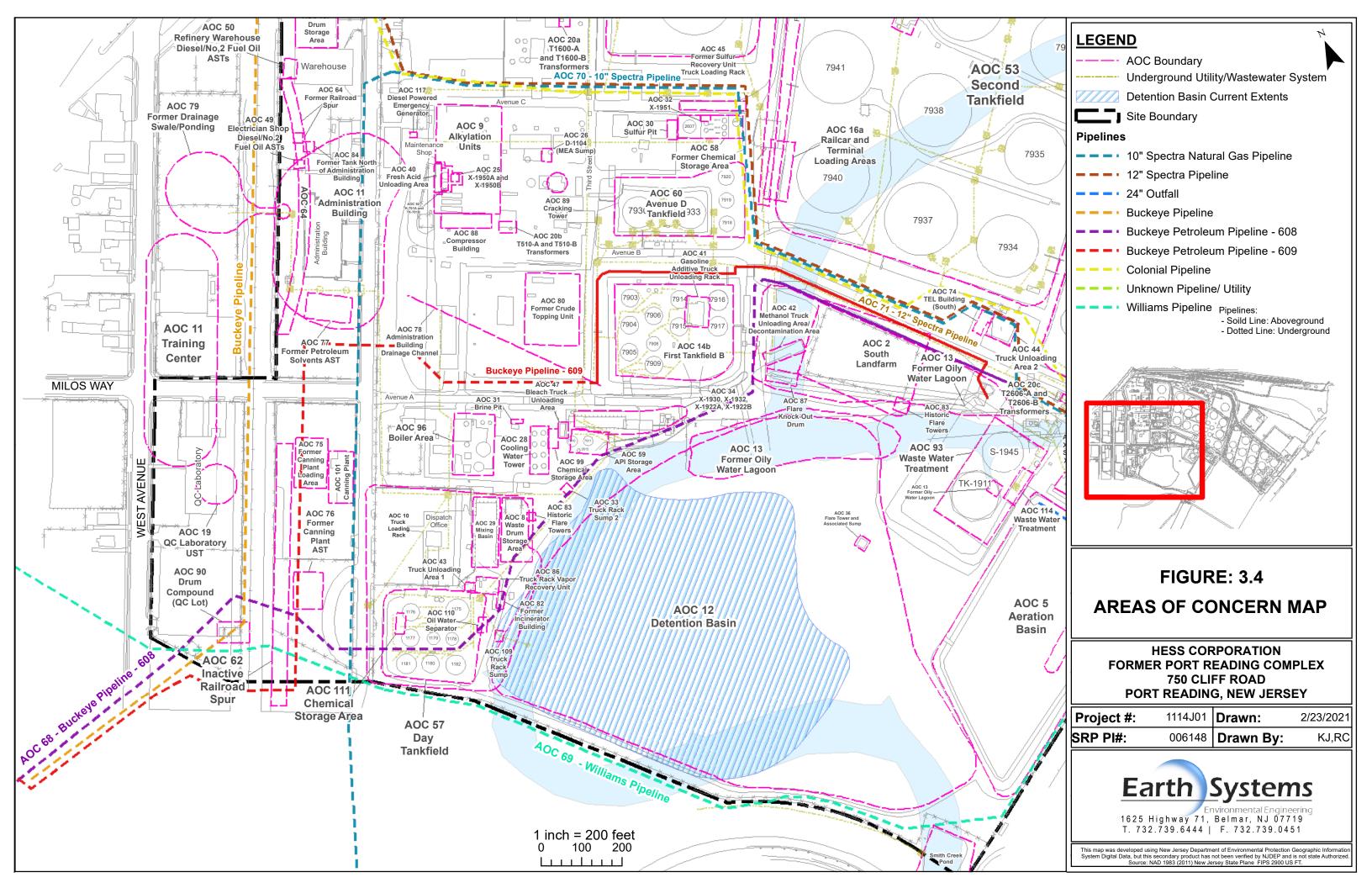


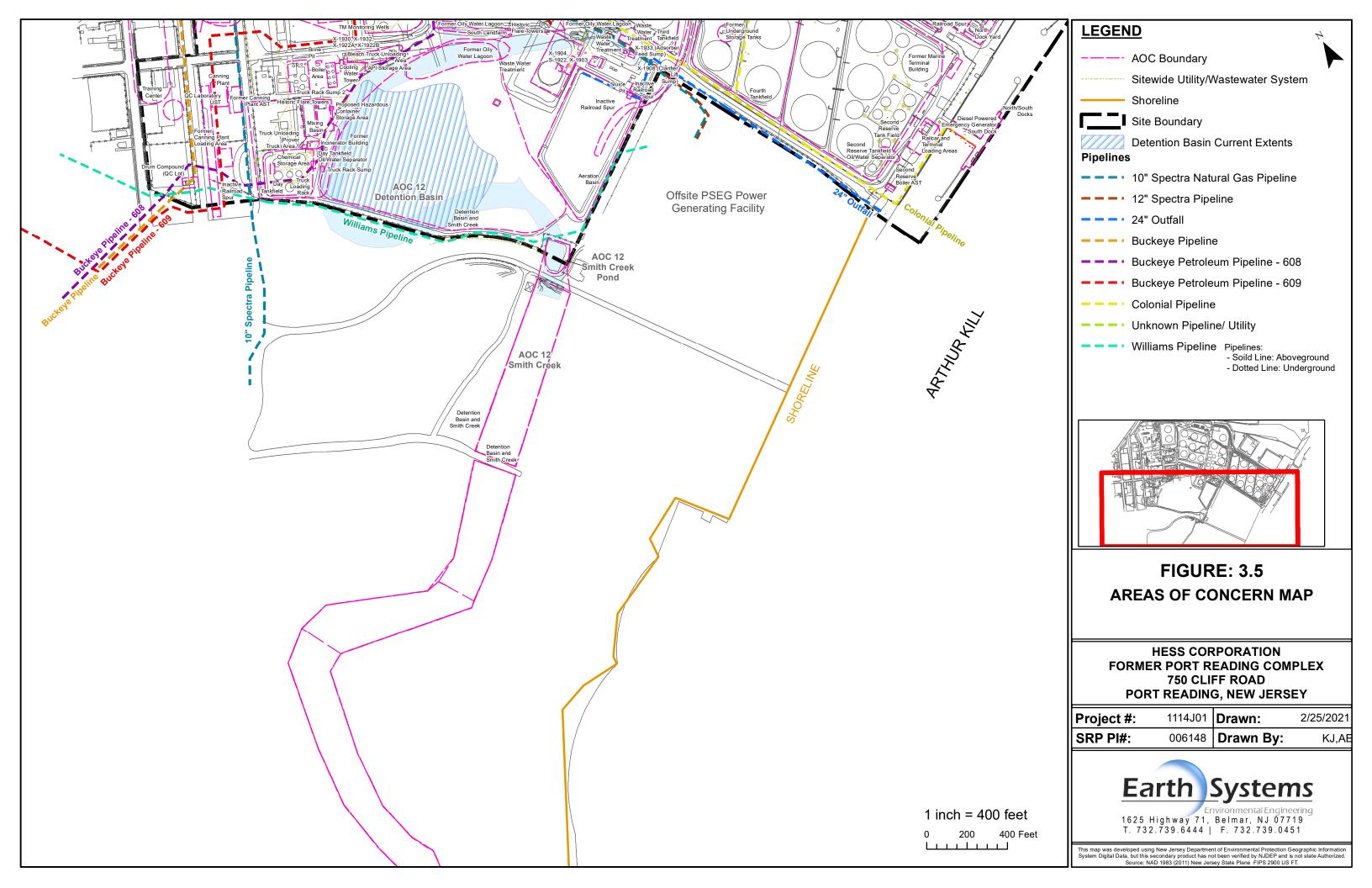


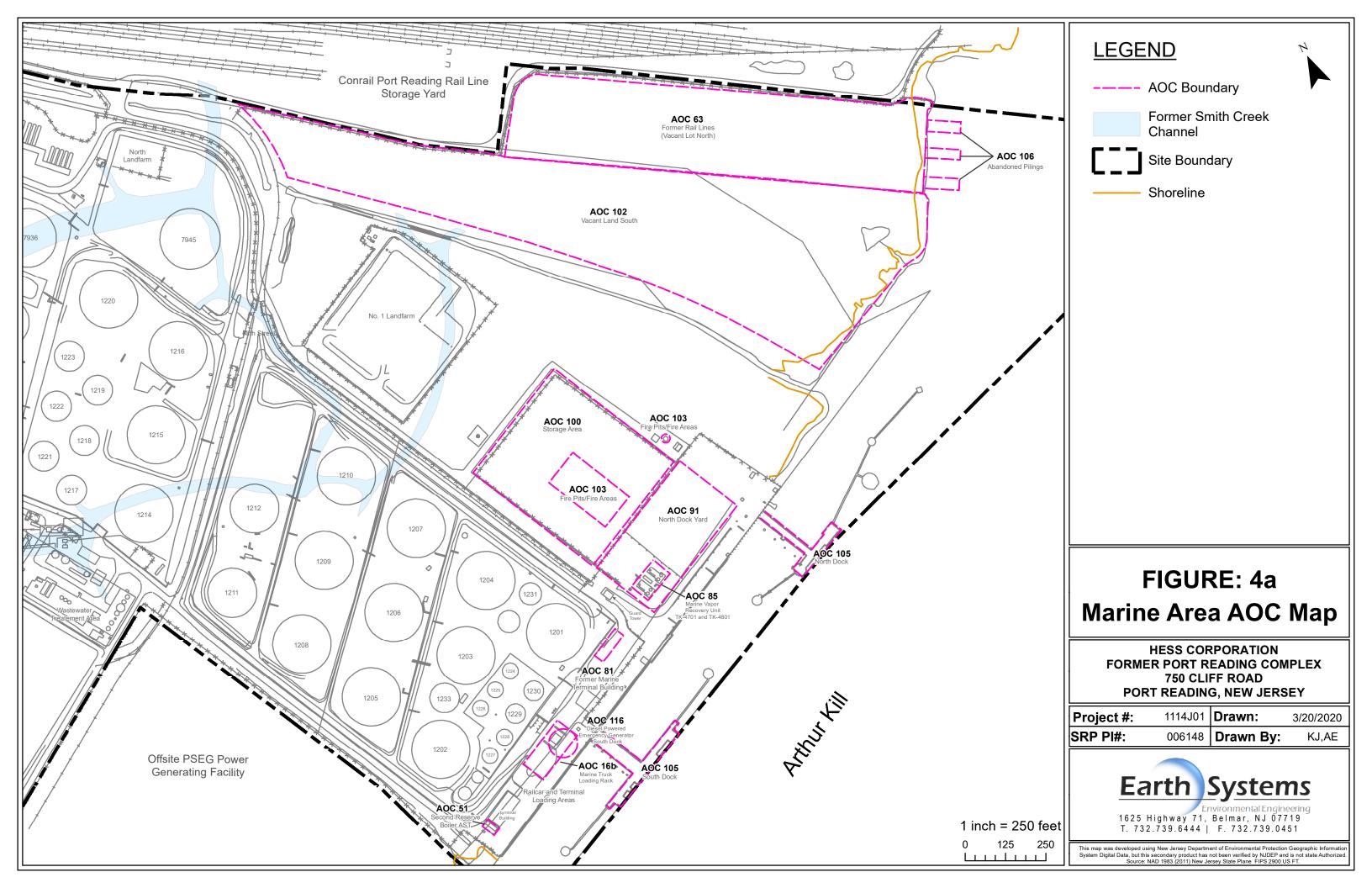


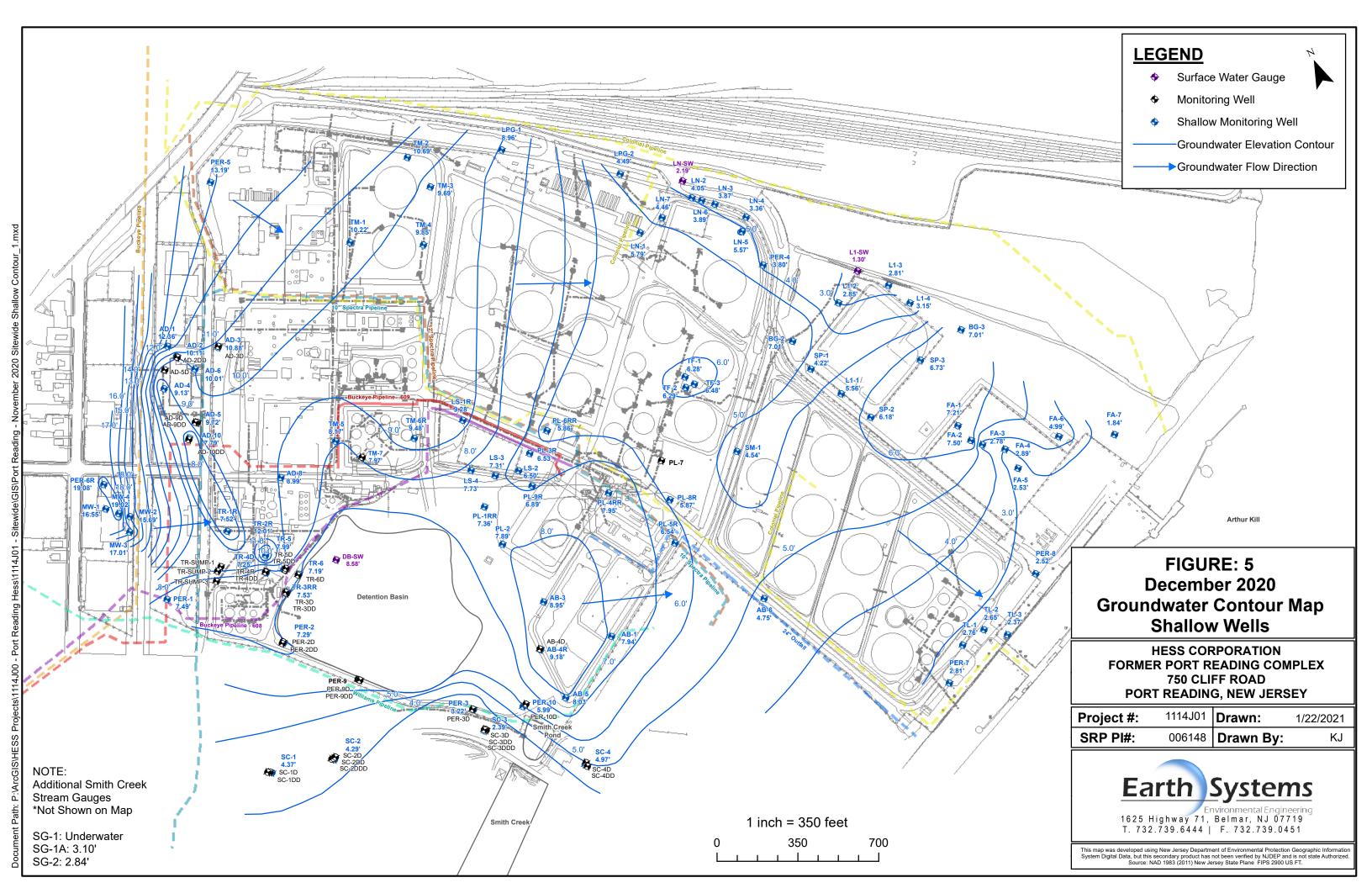


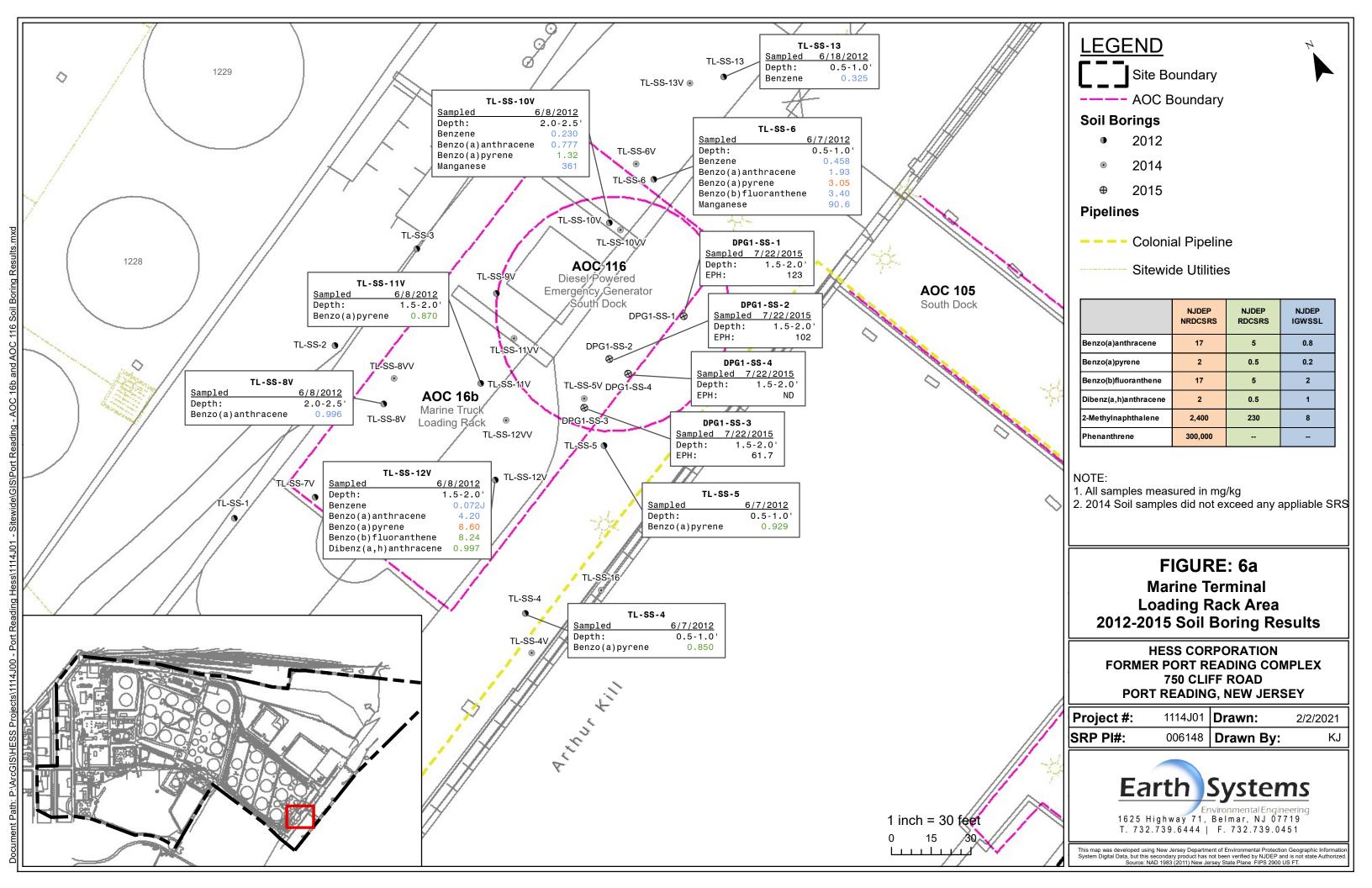


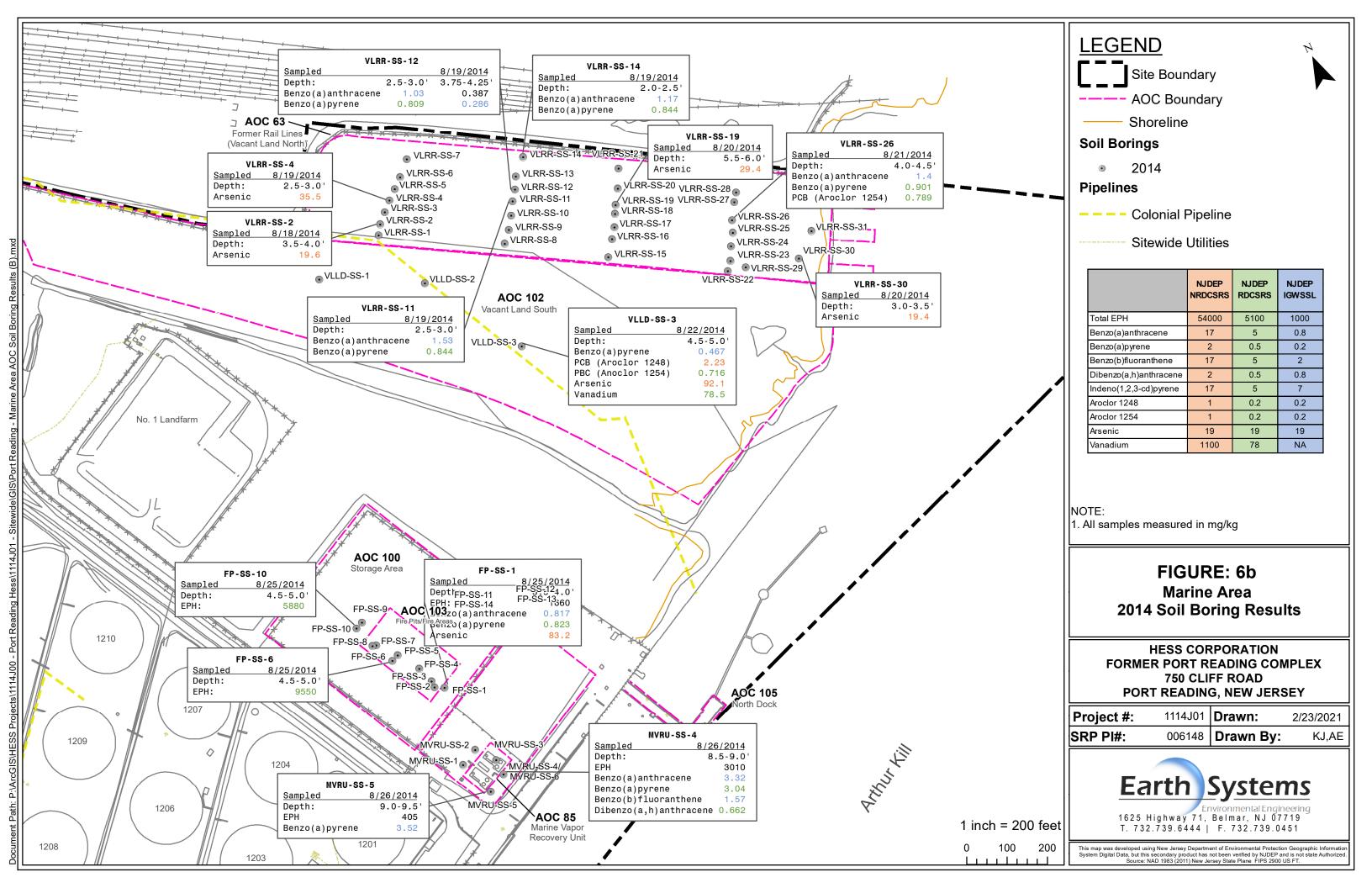


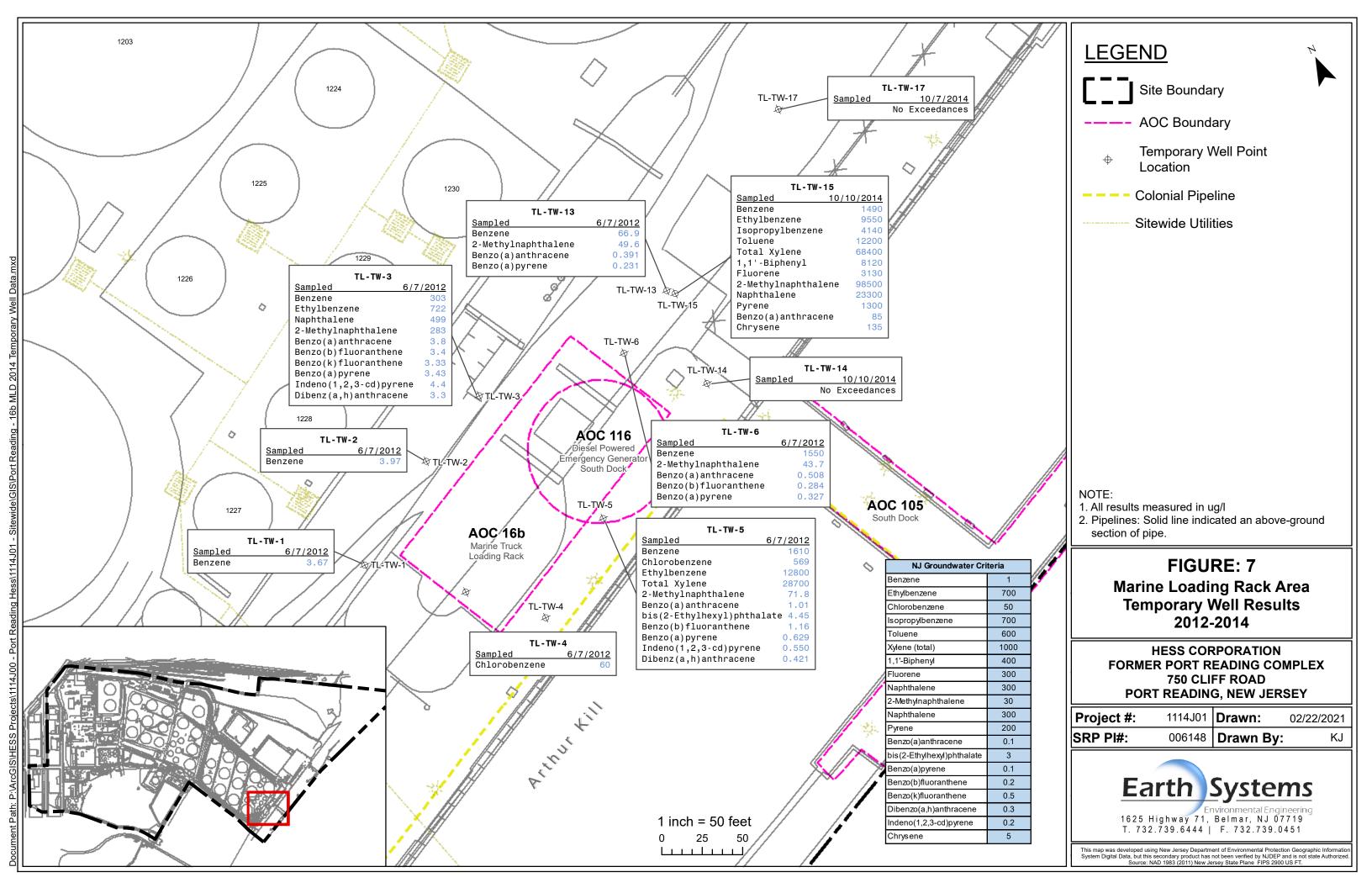


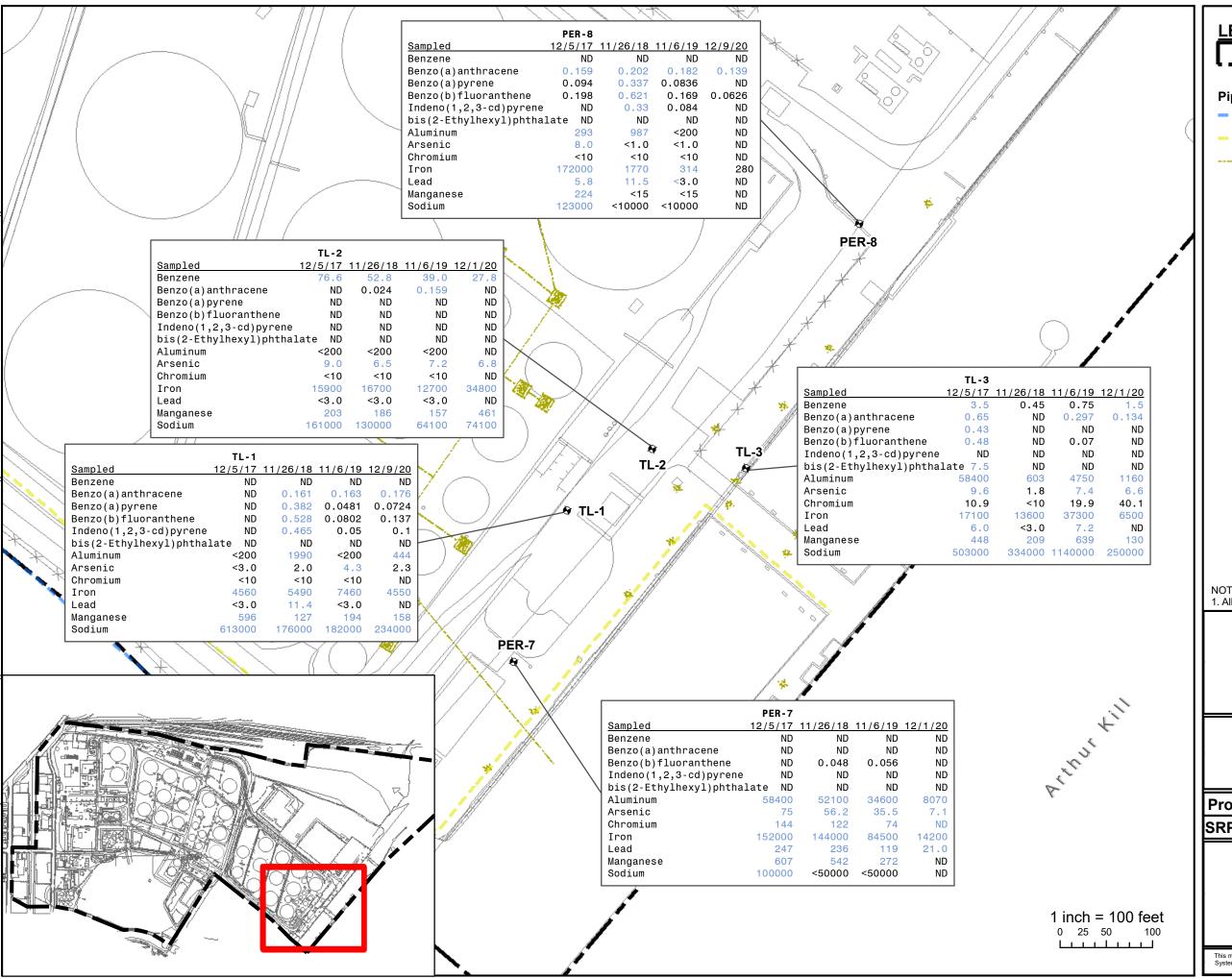
















**Pipelines** 

- - 24" Outfall

Colonial Pipeline

----- Underground Utility Lines

NJ Groundwater Cr	iteria
Benzene	1
Benzo(a)anthracene	0.1
Benzo(a)pyrene	0.1
Benzo(b)fluoranthene	0.2
Benzo(k)fluoranthene	0.5
Indeno(1,2,3-cd)pyrene	0.2
bis(2-Ethylhexyl)phthalate	3
Aluminum	200
Arsenic	3
Chromium	70
Iron	300
Lead	5
Manganese	50
Sodium	50000

1. All Results were measured in ug/l

FIGURE: 8a **Marine Loading Area** 2017-2020 **Annual Groundwater Results** 

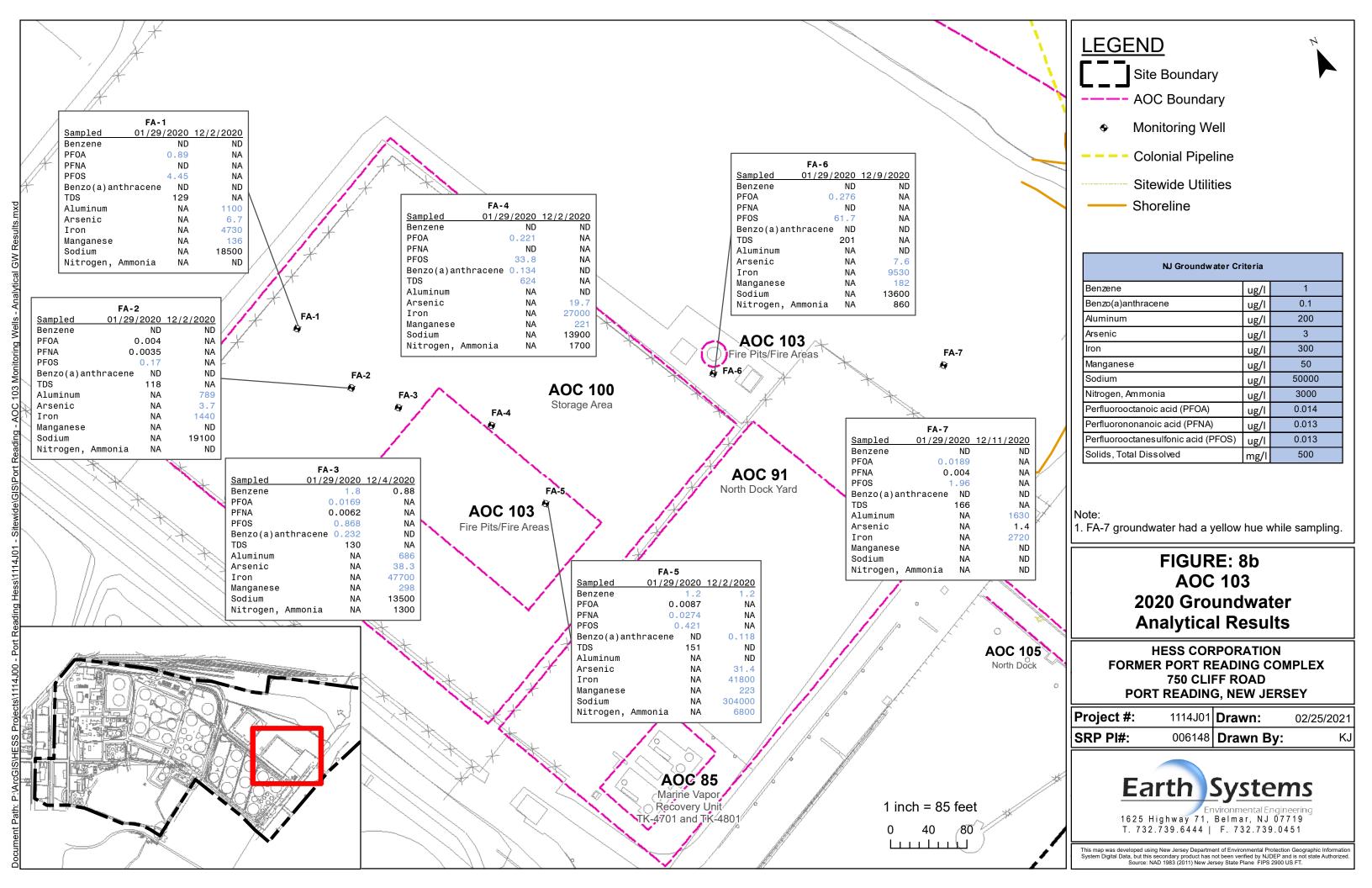
**HESS CORPORATION** FORMER PORT READING COMPLEX 750 CLIFF ROAD PORT READING, NEW JERSEY

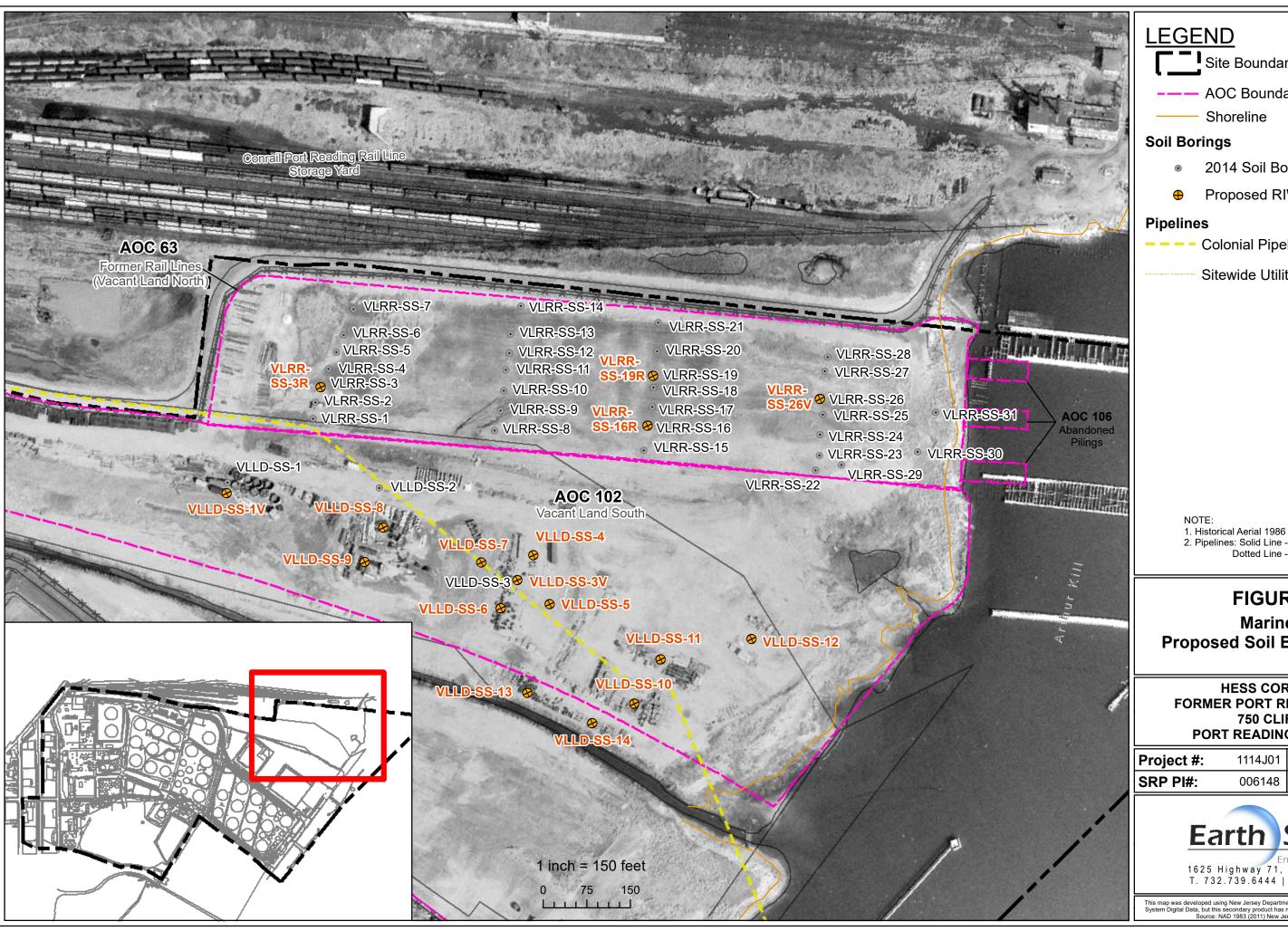
Project #: 1114J01 Drawn: 2/22/202 SRP PI#: 006148 | **Drawn By**: RC/K



1625 Highway 71, Belmar, NJ 07719 T. 732.739.6444 | F. 732.739.0451

This map was developed using New Jersey Department of Environmental Protection Geographic Informatic System Digital Data, but this secondary product has not been verified by NJDEP and is not state Authorize Source: NAD 1983 (2011) New Jersey State Plane FIPS 2900 US FT.









Shoreline

- 2014 Soil Borings
- Proposed RIW Soil Borings

**Colonial Pipeline** 

Sitewide Utilities

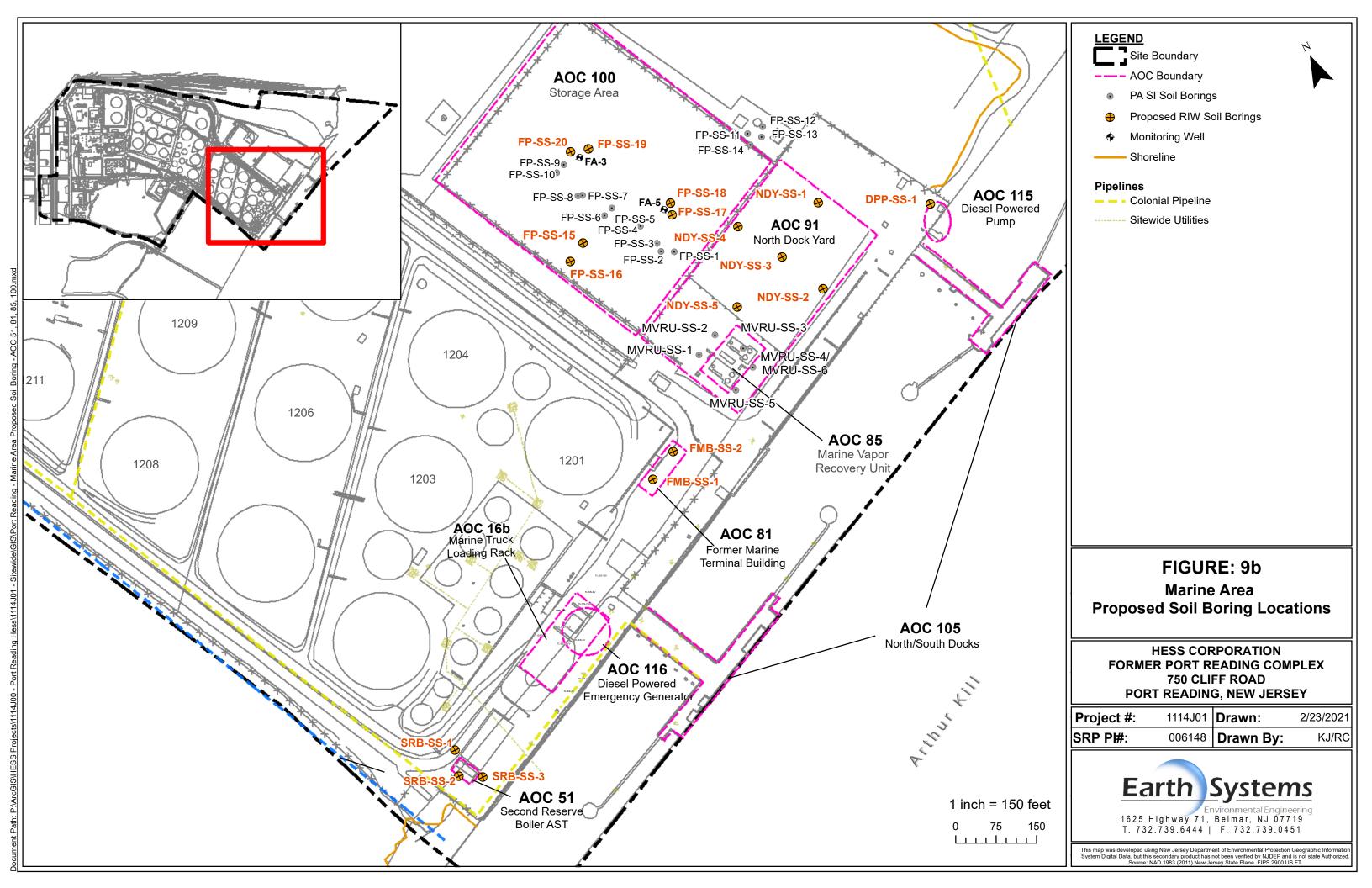
- 2. Pipelines: Solid Line Aboveground Dotted Line - Underground

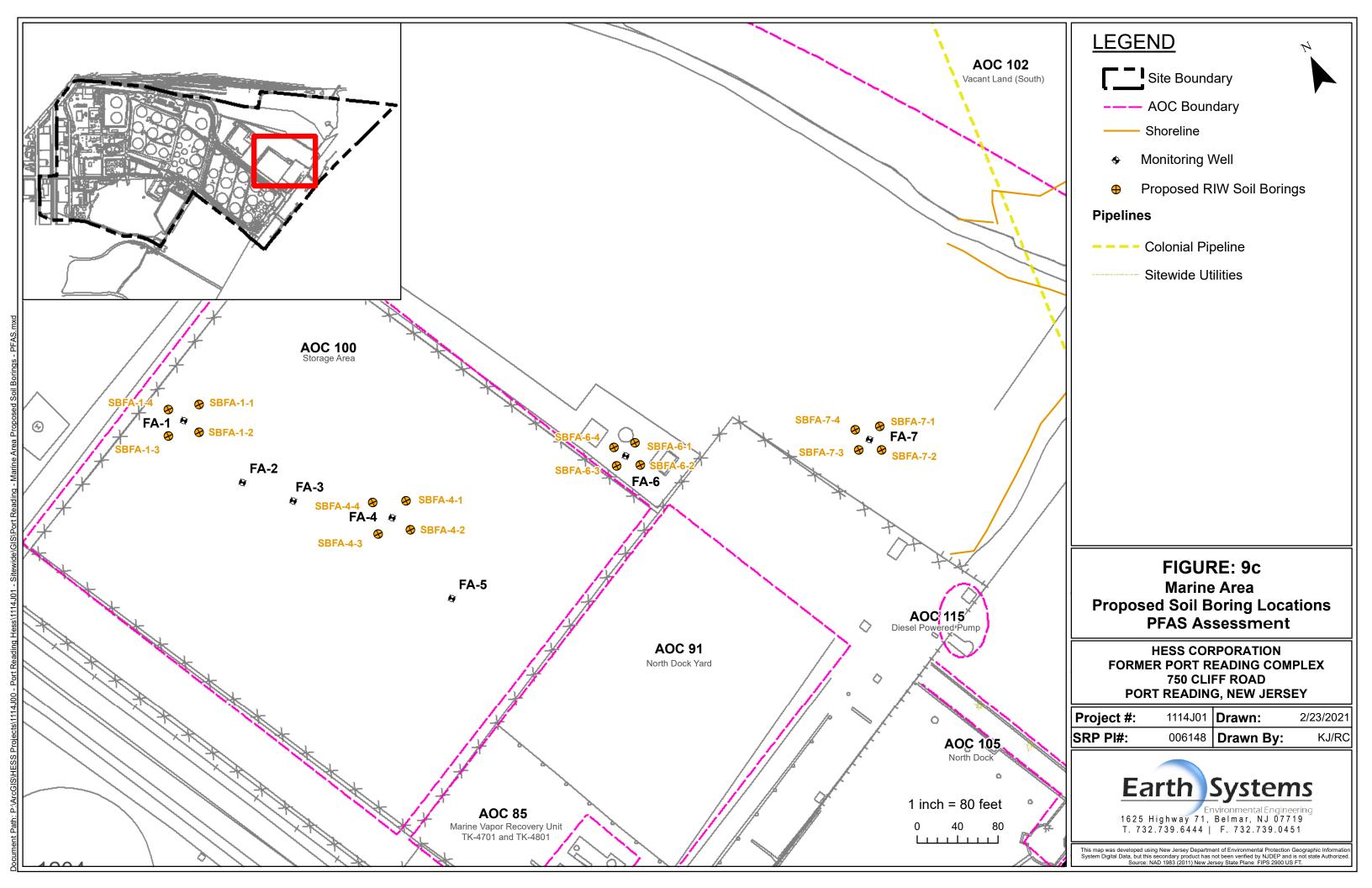
FIGURE: 9a **Marine Area Proposed Soil Boring Locations** 

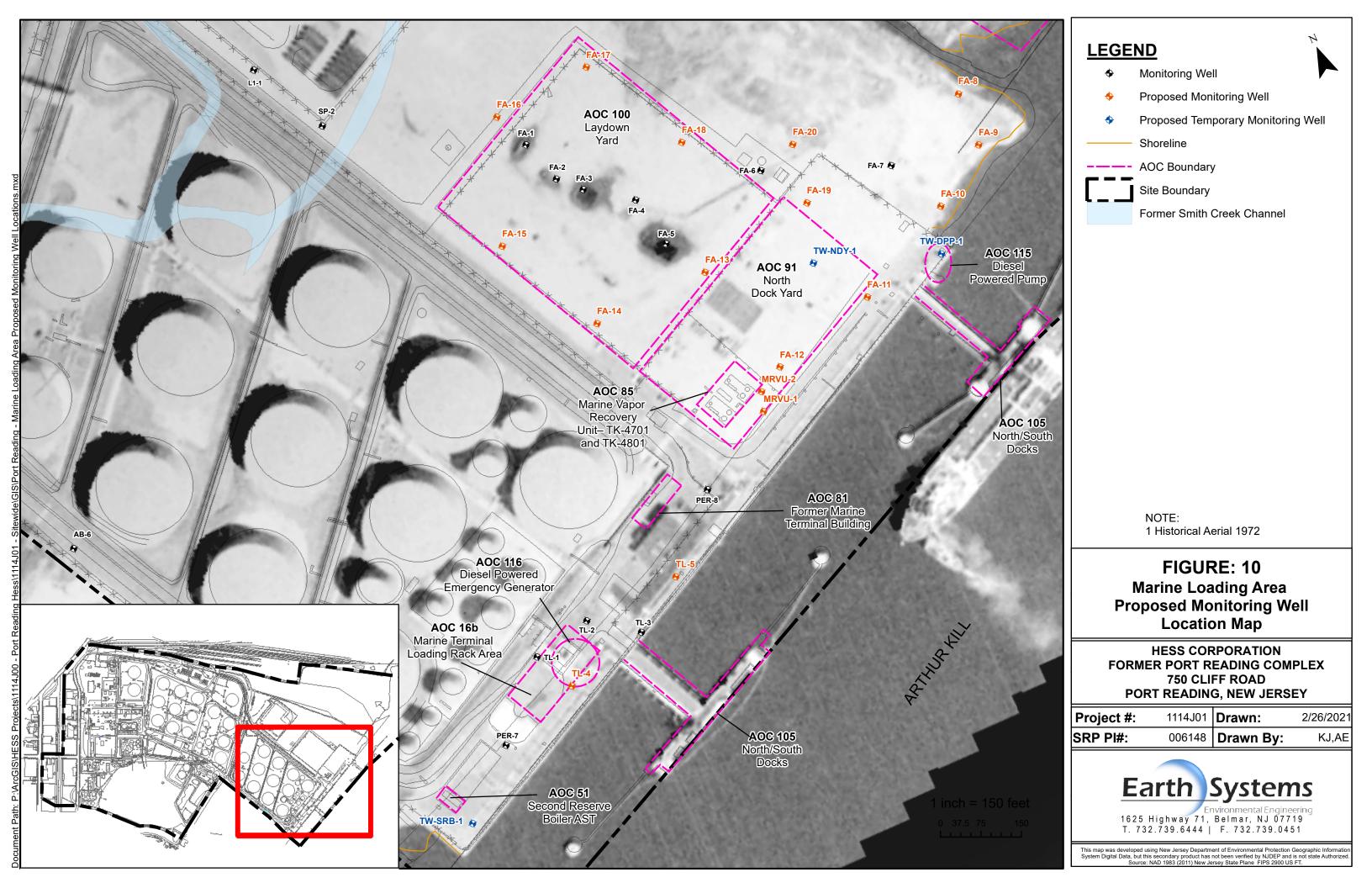
**HESS CORPORATION** FORMER PORT READING COMPLEX 750 CLIFF ROAD **PORT READING, NEW JERSEY** 

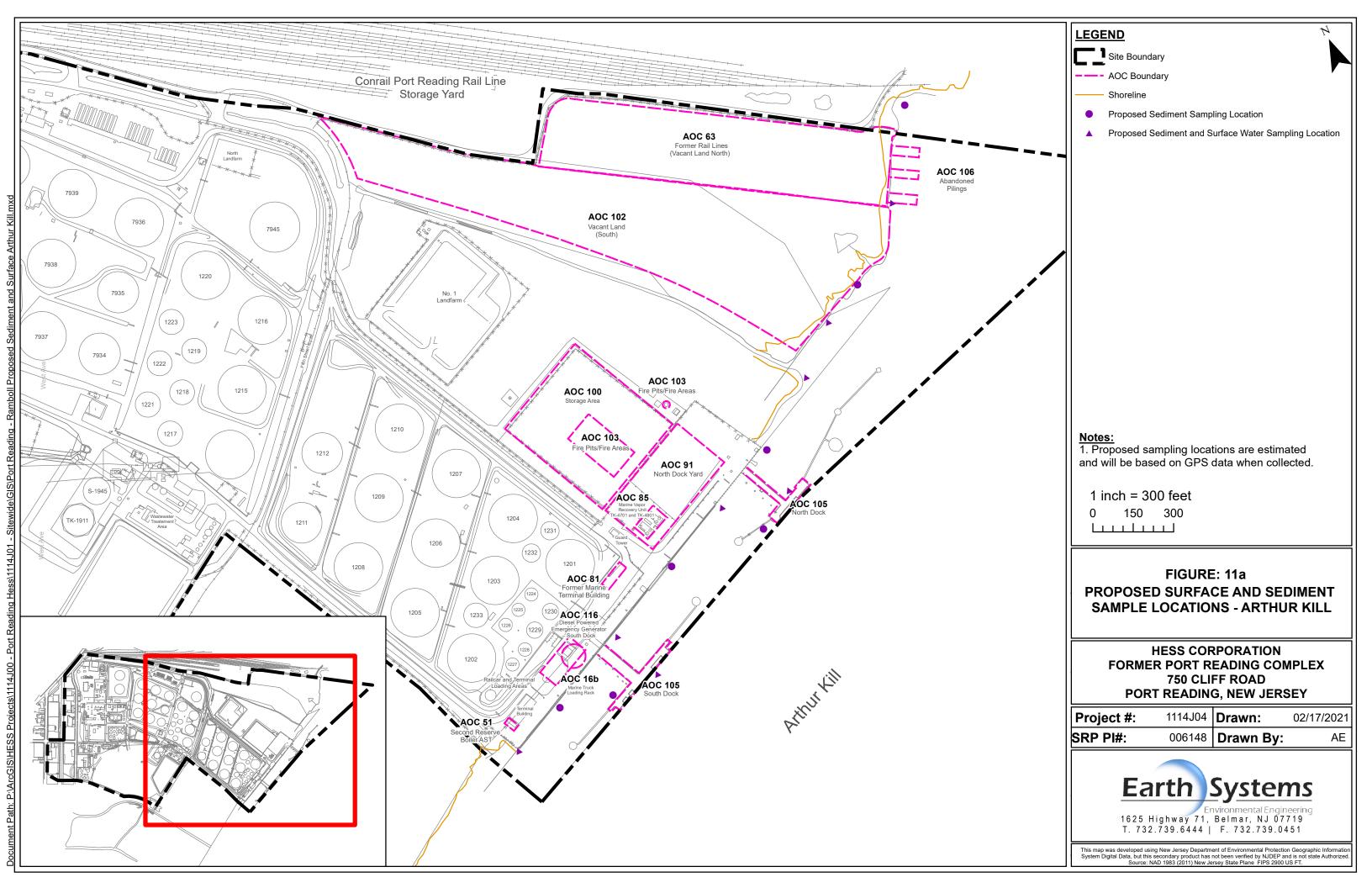
1114J01 | **Drawn**: 2/23/2021 006148 **Drawn By:** KJ/RC

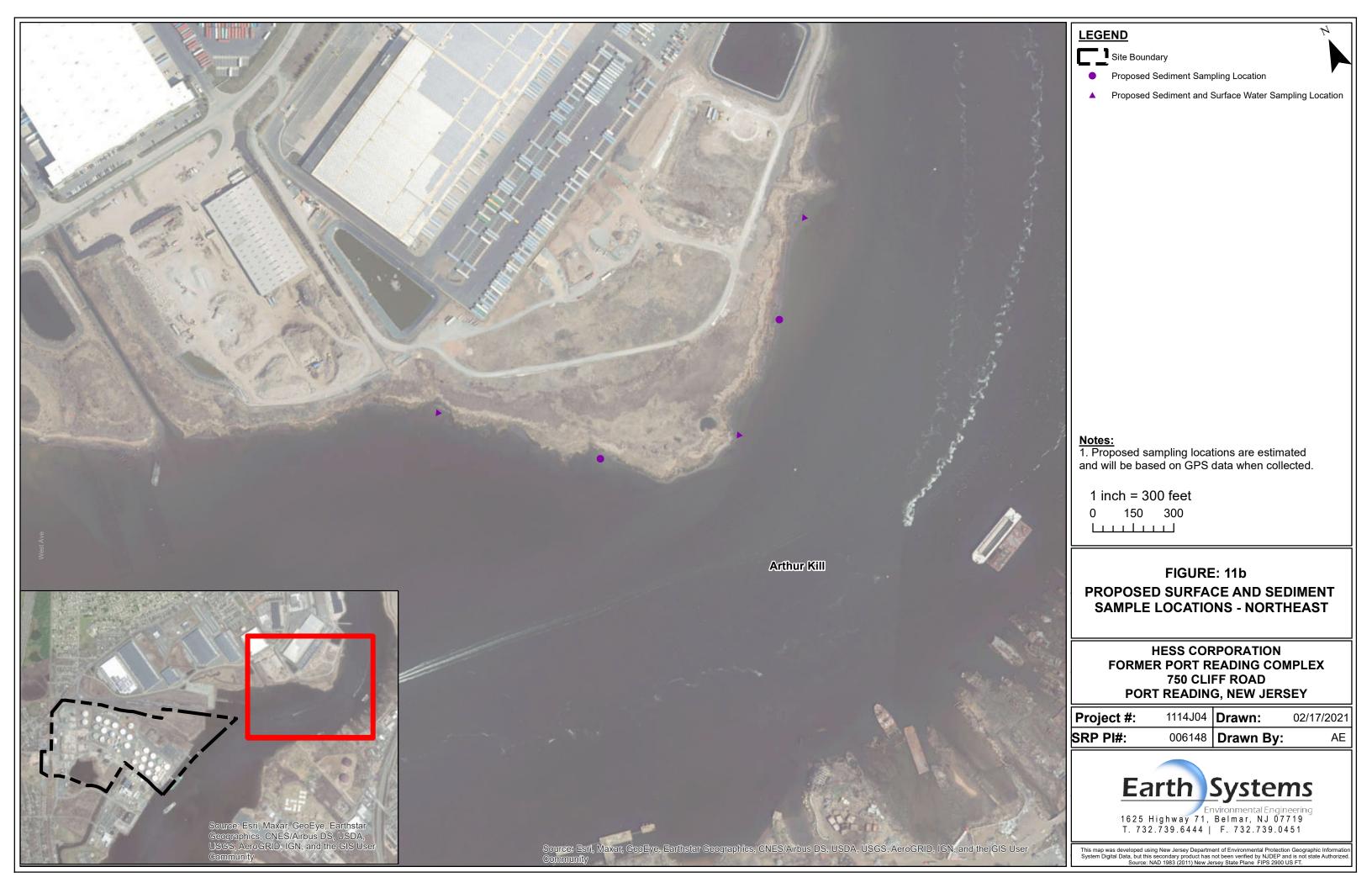


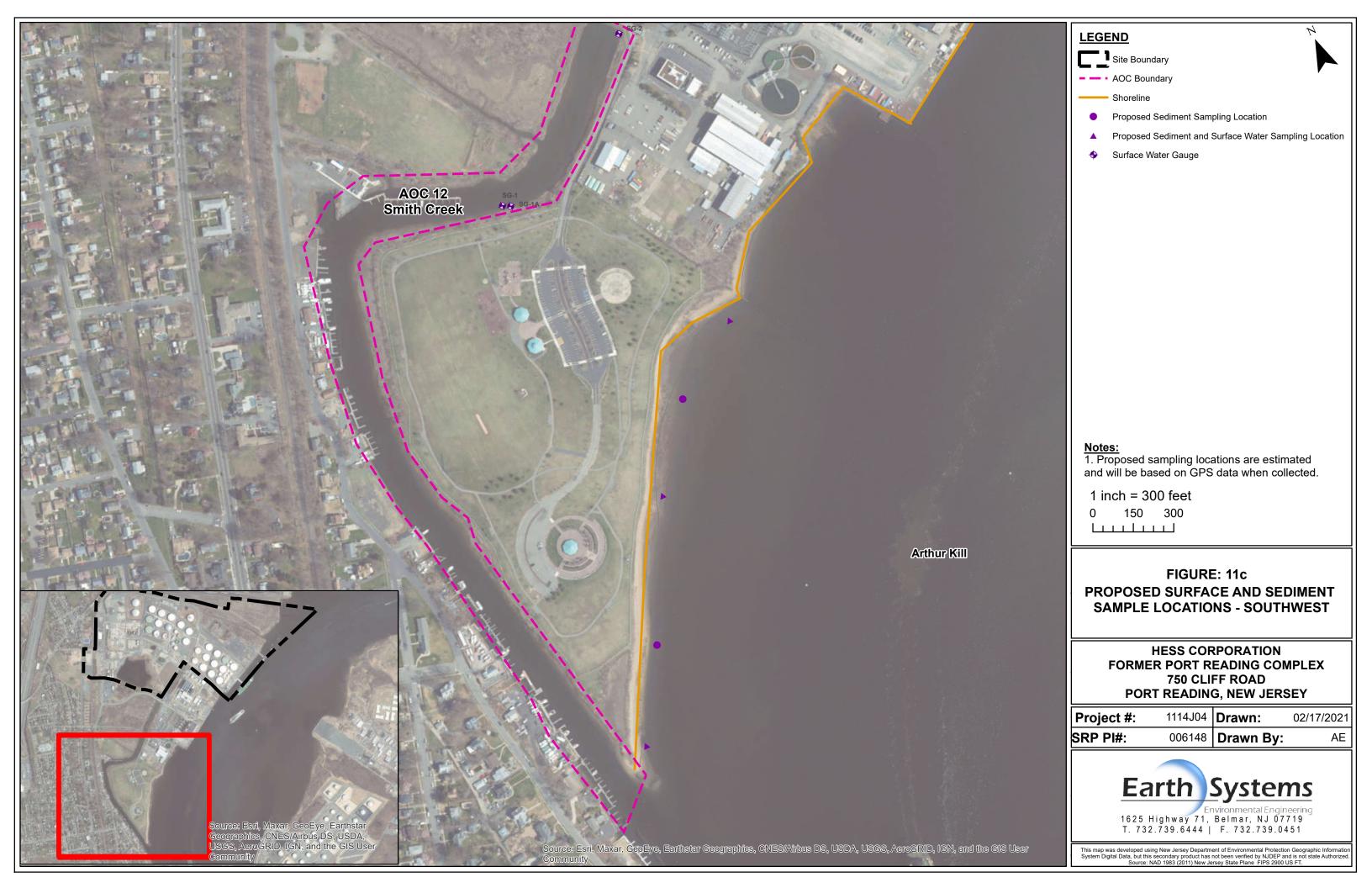


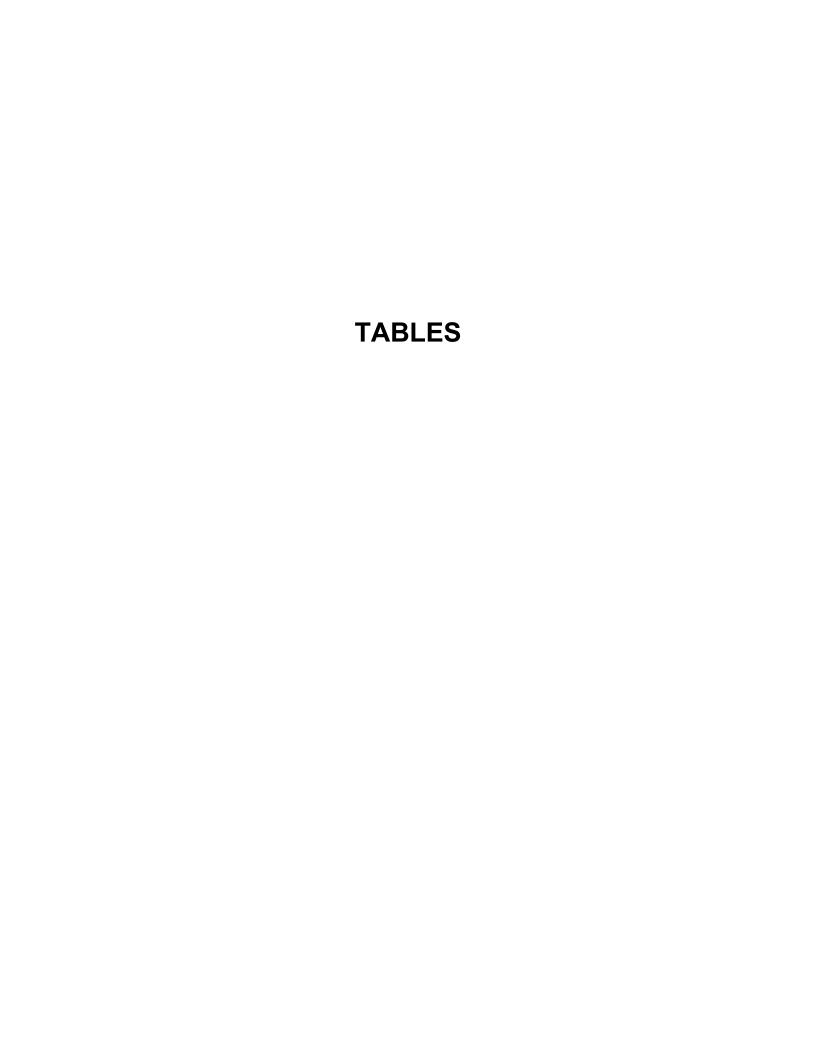












#### Table 1

## Hess Corporation - Port Reading Refinery 750 Cliff Road, Port Reading, Middlesex County, New Jersey

## AOC 16B Soil Sampling Analytical Summary Volatile Organic Compounds (VOCs)

Sample Location	Date	Depth (feet)	Total EPH	Total Polychlorinated biphenyl (PCBs)	Acetone	Benzene	2-Buttanone (MEK)	Carbon disulfide	Chlorobenzene	Cyclohexane	1,4 Dichlorobenzene	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Methyl Tert Butyl Ether (MTBE)	Methylene chloride	Tert Butyl Alcohol (TBA)	Toluene	Xylene (total)	Total Volatile TICs
	DEP NRDCS		54,000	1		5	44,000	110,000	7400		13	110,000			320	230	11,000	91,000	170,000	
	JDEP RDCSF		5,100	0.2	70,000	2	3,100	7,800	510		5	7,800			110	46	1,400	6,300	12,000	
	JDEP IGWSS		-	0.2	19	0.005	0.9	6	0.6		2	13			0.2	0.01	0.3	7	19	100/500
TL-SS-1	6/7/2012	0.5-1.0	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
TL-SS-2	6/7/2012	0.5-1.0	950	NA NA	NA NA	NA	NA NA	NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA	NA NA	NA NA	NA NA	NA NA	NA NA
TL-SS-3 TL-SS-4	6/7/2012 6/7/2012	0.5-1.0 0.5-1.0	1,260 NA	NA NA	NA ND	NA ND	NA ND	NA ND	NA ND	NA ND	NA ND	NA ND	NA ND	NA ND	NA ND	NA ND	NA NA	NA ND	NA ND	
TL-SS-4V	10/9/2014	5.5-6.0	143	NA NA	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	0.143 J (10) ND
TL-SS-4V	6/7/2012	0.5-1.0	NA	NA NA	ND	ND ND	ND	ND	ND	ND	ND	ND ND	ND	ND	ND	ND	NA NA	ND ND	ND	0.021 J (3)
TL-SS-5V	10/8/2014	6.5-7.0	710	NA	ND	ND	ND	ND	0.0843 J	0.0257 J	ND	0.0161 J	0.959	0.38	ND	ND	ND	ND	0.0210 J	21.3 J (10)
TL-SS-6	6/7/2012	0.5-1.0	1,920	ND	ND	0.458	ND	ND	0.086 J	ND	0.098 J	3.51	1.82	8.95	ND	ND	NA	0.058 J	1.14	100 J (10)
TL-SS-6V	10/7/2014	5.5-6.0	ND	NA	0.0502	0.0014	0.0080 J	0.0044	ND	ND	ND	ND	ND	0.00036 J	ND	ND	ND	ND	0.00023 J	0.0526 J (5)
TL-SS-7V	6/8/2012	1.5-2.0	437	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND
TL-SS-8V	6/8/2012	1.5-2.0	590	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00609	ND	ND	ND	ND	ND	0.193 J (10)
TL-SS-8VV	10/8/2014	6.0-6.5	ND	NA	0.0314	0.00034 J	ND	ND	ND	ND	ND	ND	ND	0.00067 J	ND	0.0018 J	ND	ND	ND	ND
TL-SS-9V	6/8/2012	1.5-2.0	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TL-SS-10V	6/8/2012	2.0-2.5	NA	ND	ND	0.230	ND	ND	ND	ND	ND	0.109	0.106	4.93	ND	ND	ND	ND	0.099 J	21.9 J (10)
TL-SS-10VV	10/7/2014	19.5-20.0	24.4	NA	0.0417	0.0151	ND	0.0069	0.00021 J	0.0018 J	ND	0.00029 J	0.0011 J	0.0026	0.0018	0.0021 J	0.117	0.00076 J	0.00075 J	0.0507 J (5)
TL-SS-11V	6/8/2012	1.5-2.0	980	NA	ND	ND	ND	ND	ND	0.352	ND	ND	0.123	1.14	ND	ND	ND	ND	ND	13.5 J (10)
TL-SS-11VV	10/7/2014	12.5-13.0	ND	NA	0.0114	0.00026 J	ND	0.00088 J	ND	ND	ND	ND	0.00058 J	ND	0.00062 J	ND	0.0527	ND	ND	0.0252 J (3)
TL-SS-12V	6/8/2012	1.5-2.0	1,590	NA	ND	0.072J	ND	ND	ND	2.41	ND	0.106 J	0.176 J	3.62	ND	ND	ND	ND	0.319 J	46.8 J (10)
TL-SS-12VV	10/8/2014	12.5-13.0	175	NA	0.0388	ND	ND	0.0083	ND	0.00062 J	ND	ND	0.0007 J	0.0014 J	ND	0.002 J	ND	ND	ND	0.506 J (15)
TL-SS-13	6/18/2012	0.5-1.0	1,860	NA	ND	0.325	ND	ND	ND	ND	ND	3.88	0.877	5.81	ND	ND	ND	0.125 J	0.915	121 J (15)
TL-SS-13V	10/7/2014	6.5-7.0	ND	NA	0.0288	0.00072	ND	0.0006 J	ND	ND	ND	0.00021 J	ND	ND	ND	ND	ND	ND	ND	ND
TL-SS-16	10/9/2014	5.0-5.5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

## Table 1 Hess Corporation - Port Reading Refinery 750 Cliff Road, Port Reading, Middlesex County, New Jersey

AOC 16B Soil Sampling Analytical Summary Semi-Volatile Organic Compounds (SVOCs)

Sample Location	Sample Date	Depth (feet)	Acenaphthene	Acenapthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	1,1' Biphenyl	bis(2-Ethylhexyl)phthalate	Caprolactam	Carbazole	Chrysene	Dibenz(a,h)anthracene	Dibenzofuran	Diethyl phthalate	Di-n-butyl phthalate	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	2-Methylnaphthalene	Phenanthrene	Pyrene	Naphthalene	Total Semi-Volatile TICs
_	DEP NRDCSR	_	37,000	300,000	30,000	17	2	17	30,000	170	240	140	340,000	96	1,700	2		550,000	68,000	24,000	24,000	17	2,400	300,000	18,000	17	
_	IDEP RDCSRS		3,400		17,000	5	0.5	5	380,000	45	61	35	31,000	24	450	0.5		49,000	6,100	2,300	2,300	5	230		1,700	6	400/500
TL-SS-1	JDEP IGWSSL 6/7/2012	0.5-1.0	110 ND	ND	<b>2,400</b> ND	<b>0.8</b> ND	<b>0.2</b> ND	2 ND	ND	<b>25</b> ND	140 ND	<b>1,200</b> ND	<b>12</b> ND	ND	<b>80</b> ND	ND	ND	88 ND	<b>760</b> ND	<b>1,300</b> ND	<b>170</b> ND	ND	ND	ND	<b>840</b> ND	<b>25</b> ND	<b>100/500</b> ND
TL-SS-1	6/7/2012	0.5-1.0	NA NA	NA NA	ND	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	ND ND	NA NA	NA NA	NA NA	NA NA	NA NA	ND	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
TL-SS-3	6/7/2012	0.5-1.0	NA NA	NA	ND	NA	NA NA	NA	NA NA	NA	NA	NA NA	ND	NA	NA NA	NA	NA NA	NA	ND	NA	NA NA	NA	NA	NA NA	NA NA	NA	NA.
TL-SS-4	6/7/2012	0.5-1.0	ND	ND	ND	0.427	0.850	0.864	0.563	0.626	ND	ND	ND	ND	0.636	0.126 J	ND	ND	ND	1.20	ND	0.503	ND	0.577	0.967	ND	6.63 J (6)
TL-SS-4V	10/9/2014	5.5-6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0583 J	ND	ND	ND	ND	ND	ND	ND	0.420 J (3)
TL-SS-5	6/7/2012	0.5-1.0	ND	ND	ND	0.408	0.929	0.883	0.475	0.771	ND	0.227	ND	ND	0.553	0.159	ND	ND	ND	0.733	ND	0.466	ND	0.143	0.683	ND	4.42 J (5)
TL-SS-5V	10/8/2014	6.5-7.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TL-SS-6	6/7/2012	0.5-1.0	0.413	0.121 J	0.256	1.93	3.05	3.40	0.612	3.47	ND	0.267	ND	0.145	2.53	0.246	0.152	ND	ND	7.69	0.366	0.647	1.26	1.55	4.87	1.76	72.9 J (15)
TL-SS-6V	10/7/2014	5.5-6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0486 J	ND	ND	ND	ND	ND	ND	0.0745 J	ND	ND	ND	ND	ND	ND	ND	4.580 J (3)
TL-SS-7V	6/8/2012	1.5-2.0	ND	ND	ND	0.377	ND	ND	ND	ND	ND	ND	ND	0.107J	0.513	ND	ND	ND	ND	1.24	ND	ND	ND	0.710	0.907	ND	ND
TL-SS-8V	6/8/2012	1.5-2.0	0.351	ND	0.333	0.996	ND	ND	ND	ND	ND	ND	ND	0.334	1.22	ND	0.120J	ND	ND	3.59	0.212	ND	ND	2.29	2.53	0.149J	20.2 J (15)
TL-SS-8VV	10/8/2014	6.0-6.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TL-SS-9V	6/8/2012	1.5-2.0	ND	ND	ND	0.199	ND	ND	ND	ND	ND	ND	ND	ND	0.242	ND	ND	ND	ND	0.494	ND	ND	ND	0.201	0.416	ND	ND
TL-SS-10V	6/8/2012	2.0-2.5	0.185	ND	ND	0.777	1.32	1.52	0.658	0.917	ND	ND	ND	0.165	1.07	0.202	ND	ND	ND	2.65	0.087J	0.647	ND	1.17	2.13	ND	16.8 J (14)
TL-SS-10VV	10/7/2014	19.5-20.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0537 J	0.0182 J	ND	ND	ND	ND	0.0193 J	ND	1.340J (5)
TL-SS-11V	6/8/2012	1.5-2.0	0.196	ND	0.176	0.550	0.870	1.04	0.324	0.715	ND	0.335	ND	0.215	0.787	0.133J	0.133 J	ND	ND	2.17	0.117 J	0.348	ND	1.63	1.44	ND	40.6 J (15)
TL-SS-11VV	10/7/2014	12.5-13.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.177	ND	ND	ND	ND	ND	0.019 J	ND	4.37 J (4)
TL-SS-12V	6/8/2012	1.5-2.0	ND	ND	0.484	4.20	8.60	8.24	2.03	9.88	ND	0.757	ND	0.209	5.10	0.997	ND	ND	ND	9.99	0.101J	2.35	ND	1.23	6.90	ND	45.0 J (15)
TL-SS-12VV	10/8/2014	12.5-13.0	NA	NA	NA	NA	NA NB	NA	NA	NA	NA 0.500 I	NA	ND	NA	NA NB	NA	NA	NA NB	NA	NA 1.00	NA	NA	NA 0.74	NA 0.550.1	NA 4.00	NA	NA 101 L (15)
TL-SS-13	6/18/2012	0.5-1.0	ND	ND	ND	ND	ND	ND	ND	ND	0.532 J	ND 0.0400.1	ND	ND	ND	ND	ND	ND	ND 0.0500 I	1.39	ND	ND	2.74	0.558 J	1.20	1.44	121 J (15)
TL-SS-13V TL-SS-16	10/7/2014 10/9/2014	6.5-7.0 5.0-5.5	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	0.0402 J ND	ND 0.0607 J	ND ND	ND ND	ND ND	ND 0.205	ND ND	0.0526 J ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	5.87 J (5) 1.67 J (7)

# Table 1 Hess Corporation - Port Reading Refinery 750 Cliff Road, Port Reading, Middlesex County, New Jersey

### AOC 16B Soil Sampling Analytical Summary Metals

Sample Location	Sample Date	Depth (feet)	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
N.	JDEP NRDCSR	RS		450	19	59,000	140	78			590	45,000		800		5,900	65	23,000	1	5,700	5,700			1,100	110,000
N	IJDEP RDCSR	S	78,000	31	19	16,000	16	78			1,600	3,100		400	11,000	23	23			390	390			78	23,000
P	NJDEP IGWSSI	<u>_</u>	6,000	6	19	2,100	0.7	2			90	11,000		90		65	0.1	48		11	1		3		930
TL-SS-1	6/7/2012	0.5-1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TL-SS-2	6/7/2012	0.5-1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TL-SS-3	6/7/2012	0.5-1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TL-SS-4	6/7/2012	0.5-1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TL-SS-4V	10/9/2014	5.5-6.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TL-SS-5	6/7/2012	0.5-1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TL-SS-5V	10/8/2014	6.5-7.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TL-SS-6	6/7/2012	0.5-1.0	4,850	ND	4.31	15.8	ND	ND	1,970	14.1	4.4	18.3	15,500	10.6	2,440	90.6	0.022	12.6	889	ND	ND	538	ND	42.6	23.4
TL-SS-6V	10/7/2014	5.5-6.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TL-SS-7V	6/8/2012	1.5-2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TL-SS-8V	6/8/2012	1.5-2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TL-SS-8VV	10/8/2014	6.0-6.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TL-SS-9V	6/8/2012	1.5-2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TL-SS-10V	6/8/2012	2.0-2.5	4,910	ND	4.03	20.0	0.272 J	ND	2,080	11.6	4.88	30.4	17,400	12.0	2,390	361	0.029	9.90	936	ND	ND	872	ND	28.9	24.8
TL-SS-10VV	10/7/2014	19.5-20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TL-SS-11V	6/8/2012	1.5-2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TL-SS-11VV	10/7/2014	12.5-13.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TL-SS-12V	6/8/2012	1.5-2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TL-SS-12VV	10/8/2014	12.5-13.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TL-SS-13	6/18/2012	0.5-1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TL-SS-13V	10/7/2014	6.5-7.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TL-SS-16	10/9/2014	5.0-5.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ND-Not Detected NA- Not Analyzed J- Estimated Value -- Standard Not Available All results in mg/kg, unless otherwise noted NJDEP = New Jersey Department of Environmental Protection IGWSSL- Impact to Groundwater Soil Screening Level RDCSRS- Residential Direct Contact Soil Remediation Standard NRDCSRS- Non-residential Direct Contact Soil Remediation Standard

Indicates concentration is above applicable NRDCSRS Indicates concentration is above applicable RDCSRS Indicates concentration is above applicable IGWSSL

#### AOC 63 Soil Sampling Analytical Summary Volatile Organic Compounds (VOCs)

Sample ID:	Date Sampled:	Depth:	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,2-Dibromo-3- chloropropane	Dibromochloromethane	1,2-Dibromoethane
NJDE	P NRDCSRS		-	5	3	280	59	44,000	110,000	4	7,400	1,100	2	12	0.2	8	0.04
NJD	EP RDCSRS		70,000	2	1	81	25	3,100	7,800	2	510	220	0.6	4	0.08	3	0.008
NJD	EP IGWSSL		19	0.005	0.005	0.03	0.04	0.9	6	0.005	0.6	-	0.4	-	0.005	0.005	0.005
VLRR-SS-29	8/22/2014	(3.0-3.5)	ND (0.13)	ND (0.0092)	ND (0.011)	ND (0.0092)	ND (0.015)	ND (0.097)	ND (0.015)	ND (0.0074)	ND (0.0072)	ND (0.015)	ND (0.0070)	ND (0.016)	ND (0.020)	ND (0.0091)	ND (0.0094)
VLRR-SS-30	8/20/2014	(3.0-3.5)	0.0170 J	ND (0.00032)	ND (0.00037)	ND (0.00032)	ND (0.00052)	ND (0.0033)	ND (0.00052)	ND (0.00025)	ND (0.00025)	ND (0.00051)	ND (0.00024)	ND (0.00054)	ND (0.00070)	ND (0.00031)	ND (0.00032)
VLRR-SS-31	8/20/2014	(5.0-5.5)	0.0282	ND (0.00020)	ND (0.00023)	ND (0.00020)	ND (0.00033)	ND (0.0021)	0.00096 J	ND (0.00016)	ND (0.00016)	ND (0.00032)	ND (0.00015)	ND (0.00034)	ND (0.00044)	ND (0.00020)	ND (0.00020)

Sample ID:	Date Sampled:	Depth:	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Isopropylbenzene	Methyl Acetate
NJDE	EP NRDCSRS		59,000	59,000	13	230,000	24	3	150	560	720	5	7	7	110,000	-	-
NJD	EP RDCSRS		5,300	5,300	5	490	8	0.9	11	230	300	2	2	2	7,800	-	78,000
NJD	EP IGWSSL		17	19	2	39	0.2	0.005	0.008	0.3	0.6	0.005	0.005	0.005	13	-	22
VLRR-SS-29	8/22/2014	(3.0-3.5)	ND (0.0098)	ND (0.010)	ND (0.0085)	ND (0.027)	ND (0.0096)	ND (0.013)	ND (0.014)	ND (0.013)	ND (0.0098)	ND (0.0089)	ND (0.0066)	ND (0.0087)	0.0125 J	0.0788 J	0.0948 J
VLRR-SS-30	8/20/2014	(3.0-3.5)	ND (0.00034)	ND (0.00035)	ND (0.00030)	ND (0.00093)	ND (0.00033)	ND (0.00045)	ND (0.00049)	ND (0.00047)	ND (0.00034)	ND (0.00031)	ND (0.00023)	ND (0.00030)	ND (0.00035)	ND (0.00033)	ND (0.0020)
VLRR-SS-31	8/20/2014	(5.0-5.5)	ND (0.00021)	ND (0.00022)	ND (0.00019)	ND (0.00059)	ND (0.00021)	ND (0.00029)	ND (0.00031)	ND (0.00029)	ND (0.00021)	ND (0.00019)	ND (0.00014)	ND (0.00019)	ND (0.00022)	ND (0.00021)	ND (0.0012)

Sample ID:	Date Sampled:	Depth:	Methyl Tert Butyl Ether	Methylene chloride	Styrene	1,1,2,2-Tetrachloroethane	Tetrachloroethene	Toluene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl chloride	m,p-Xylene	o-Xylene	Xylene (total)
NJDE	P NRDCSRS		320	230	260	3	1500	91,000	820	NA	6	10	340,000	2	170,000	170,000	170,000
NJDI	EP RDCSRS		110	46	90	1	43	6,300	73	160000	2	3	23,000	0.7	12,000	12,000	12,000
NJD	EP IGWSSL		0.2	0.01	3	0.007	0.005	7	0.7	0.3	0.02	0.01	34	0.005	19	19	19
VLRR-SS-29	8/22/2014	(3.0-3.5)	ND (0.0086)	ND (0.077)	ND (0.0093)	ND (0.011)	ND (0.0091)	ND (0.012)	ND (0.0093)	ND (0.0072)	ND (0.011)	ND (0.010)	ND (0.0089)	ND (0.019)	ND (0.021)	ND (0.011)	ND (0.011)
VLRR-SS-30	8/20/2014	(3.0-3.5)	ND (0.00030)	ND (0.0027)	ND (0.00032)	ND (0.00039)	ND (0.00032)	ND (0.00042)	ND (0.00032)	ND (0.00025)	ND (0.00040)	ND (0.00036)	ND (0.00031)	ND (0.00067)	ND (0.00073)	ND (0.00038)	ND (0.00038)
VLRR-SS-31	8/20/2014	(5.0-5.5)	ND (0.00019)	ND (0.0017)	ND (0.00020)	ND (0.00025)	ND (0.00020)	ND (0.00026)	ND (0.00020)	ND (0.00016)	ND (0.00025)	ND (0.00023)	ND (0.00019)	ND (0.00042)	ND (0.00046)	ND (0.00024)	ND (0.00024)

#### AOC 63 Soil Sampling Analytical Summary Semi-Volatile Organic Compounds (SVOCs)

						<u>o</u>		ne	e e	ne		eue			ane .				
Sample ID:	Date Sampled:	Depth:	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracen	Benzo(a)pyrene	Benzo(b)fluoranthe	Benzo(g,h,i)perylen	Benzo(k)fluoranthe	Chrysene	Dibenzo(a,h)anthrace	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyre	Naphthalene	Phenanthrene	Pyrene	Aroclor 1254
ı	NJDEP NRDCSR	S	37,000	300,000	30,000	17	2	17	30,000	170	1,700	2	24,000	24,000	17	17	300,000	18,000	1
	NJDEP RDCSRS		3,400	-	17,000	5	0.5	5	380,000	45	450	1	2,300	2,300	5	6	-	1700	0.2
\( \tau \)	NJDEP IGWSSL	I	110	-	2,400	0.8	0.2	2	-	25	80	0.8	1,300	170	7	25	-	840	0.2
VLRR-SS-1	8/18/2014	(2.0-2.5)	ND (0.011)	ND (0.012)	0.0196 J	0.0177 J	ND (0.011)	0.0428	0.0155 J	ND (0.014)	0.0437	ND (0.012)	0.039	ND (0.012)	0.0162 J	0.0300 J	0.0549	0.0308 J	ND (0.017)
VLRR-SS-2	8/18/2014	(3.5-4.0)	ND (0.010)	0.0308 J	0.0529	0.0406	0.0575	0.0712	0.0527	0.0232 J	0.0931	ND (0.012)	0.0457	ND (0.012)	0.0343 J	ND (0.0099)	0.0220 J	0.116	ND (0.017)
VLRR-SS-3	8/19/2014	(1.5-2.0)	ND (0.011)	0.0399	0.09	0.0511	0.0376	0.107	0.0351 J	0.0298 J	0.129	ND (0.012)	0.13	0.0141 J	0.0309 J	0.109	0.186	0.13	ND (0.016)
VLRR-SS-4	8/19/2014	(2.5-3.0)	ND (0.010)	0.0626	0.0835	0.0731	0.0638	0.171	0.0594	0.0602	0.21	0.0200 J	0.166	ND (0.012)	0.0525	0.0738	0.165	0.197	ND (0.016)
VLRR-SS-5	8/19/2014	(2.0-2.5)	ND (0.011)	ND (0.013)	0.145	0.247	0.167	0.505	0.143	0.157	0.485	ND (0.013)	0.575	ND (0.013)	0.169	0.108	0.289	0.482	ND (0.017)
VLRR-SS-6	8/18/2014	(1.75-2.25)	ND (0.0096)	ND (0.011)	0.0173 J	0.0273 J	0.0443	0.042	0.0428	ND (0.012)	0.0406	ND (0.011)	0.0347	ND (0.011)	0.0320 J	ND (0.0090)	0.0444	0.0477	0.159
VLRR-SS-7	8/18/2014	(4.5-5.0)	ND (0.011)	0.0722	0.165	0.12	0.0615	0.2	0.0559	0.0553	0.231	0.0198 J	0.44	0.0222 J	0.0623	0.07	0.216	0.326	ND (0.018)
VLRR-SS-8	8/20/2014	(2.0-2.5)	ND (0.011)	ND (0.012)	ND (0.013)	ND (0.012)	ND (0.011)	ND (0.013)	ND (0.014)	ND (0.014)	ND (0.013)	ND (0.013)	ND (0.017)	ND (0.012)	ND (0.013)	ND (0.010)	ND (0.017)	ND (0.014)	ND (0.016)
VLRR-SS-9	8/20/2014	(2.5-3.0)	ND (0.010)	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.011)	ND (0.012)	ND (0.013)	ND (0.013)	ND (0.012)	ND (0.012)	ND (0.015)	ND (0.011)	ND (0.012)	ND (0.0095)	ND (0.016)	ND (0.013)	ND (0.016)
VLRR-SS-9	8/20/2014	(6.5-7.0)	ND (0.012)	ND (0.013)	ND (0.014)	ND (0.013)	ND (0.012)	ND (0.013)	ND (0.015)	ND (0.015)	ND (0.014)	ND (0.014)	ND (0.018)	ND (0.013)	ND (0.014)	ND (0.011)	ND (0.018)	ND (0.015)	ND (0.019)
VLRR-SS-10	8/19/2014	(3.0-3.5)	ND (0.011)	ND (0.012)	ND (0.013)	ND (0.012)	ND (0.011)	0.0206 J	ND (0.014)	ND (0.014)	0.0188 J	ND (0.013)	0.0204 J	ND (0.012)	ND (0.013)	ND (0.010)	0.0222 J	0.0210 J	ND (0.016)
VLRR-SS-11	8/19/2014	(2.5-3.0)	0.829	0.166	1.05	1.53	0.844	1.8	0.477	0.559	2.27	0.184	2.38	0.482	0.539	0.195	1.18	3.46	ND (0.020)
VLRR-SS-12	8/19/2014	(2.5-3.0)	0.824	ND (0.011)	1.1	1.03	0.809	0.563	0.299	0.132	1.31	0.114	1.52	1.32	0.273	1.93	5.81	2.71	ND (0.017)
VLRR-SS-12	8/19/2014	(3.75-4.25)	0.279	ND (0.013)	0.476	0.387	0.286	0.21	0.108	0.0417	0.479	0.0427	0.568	0.484	0.0937	0.214	2.15	1.14	ND (0.021)
VLRR-SS-14	8/19/2014	(2.0-2.5)	0.276	0.0230 J	0.539	1.17	0.844	1.05	0.397	0.331	1.11	0.143	2.47	0.261	0.481	0.232	2	2.18	ND (0.016)
VLRR-SS-15	8/21/2014	(2.5-3.0)	ND (0.010)	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.011)	ND (0.012)	ND (0.013)	ND (0.013)	ND (0.012)	ND (0.012)	ND (0.015)	ND (0.011)	ND (0.012)	ND (0.0095)	ND (0.016)	ND (0.013)	ND (0.015)
VLRR-SS-16	8/21/2014	(1.5-2.0)	ND (0.010)	ND (0.011)	ND (0.012)	0.0163 J	ND (0.011)	ND (0.012)	ND (0.013)	ND (0.013)	0.0182 J	ND (0.012)	0.0173 J	ND (0.012)	ND (0.012)	ND (0.0097)	ND (0.016)	0.0208 J	ND (0.015)
VLRR-SS-17	8/21/2014	(4.0-4.5)	2.26	ND (0.011)	0.725	0.103	0.0303 J	0.0431	0.0155 J	0.0176 J	0.113	ND (0.012)	0.777	2.16	0.0142 J	ND (0.0097)	5.76	0.494	ND (0.018)
VLRR-SS-18	8/20/2014	(4.0-4.5)	0.22	ND (0.012)	0.216	0.19	0.132	0.101	0.0561	0.0299 J	0.249	ND (0.012)	0.394	0.163	0.0422	0.0764	0.597	0.45	ND (0.017)
VLRR-SS-19	8/20/2014	(4.0-4.5)	1.07	ND (0.011)	0.37	0.118	0.0533	0.0715	0.0244 J	0.0272 J	0.146	ND (0.012)	0.522	1.15	0.0218 J	ND (0.0093)	3.05	0.406	ND (0.016)
VLRR-SS-19	8/20/2014	(5.5-6.0)	0.173	ND (0.016)	0.0725	0.0488 J	0.0269 J	0.0725	ND (0.018)	0.0249 J	0.095	ND (0.017)	0.193	0.14	0.0286 J	0.147	0.373	0.0812	ND (0.025)
VLRR-SS-20	8/20/2014	(2.5-3.0)	0.0815	ND (0.011)	ND (0.012)	0.0429	0.0229 J	0.0348	0.0167 J	ND (0.013)	0.0618	ND (0.011)	0.136	0.0582	0.0164 J	ND (0.0092)	0.0485	0.0981	ND (0.016)
VLRR-SS-21	8/20/2014	(5.25-5.75)	ND (0.011)	ND (0.012)	0.0254 J	0.0401	0.0340 J	0.0422	0.0235 J	ND (0.015)	0.0526	ND (0.013)	0.0883	ND (0.013)	0.0282 J	ND (0.011)	0.0497	0.062	ND (0.018)
VLRR-SS-22	8/22/2014	(1.5-2.0)	0.165	0.0170 J	0.208	0.159	0.121	0.101	0.049	0.0176 J	0.207	0.0166 J	0.342	0.245	0.0386	0.0250 J	0.893	0.427	ND (0.016)
VLRR-SS-23	8/21/2014	(2.5-3.0)	1.23	ND (0.011)	ND (0.012)	0.139	0.0864	0.0557	0.0419	0.0217 J	0.307	ND (0.012)	0.181	1.62	0.0287 J	0.518	5.08	0.547	ND (0.015)
VLRR-SS-24	8/21/2014	(4.5-5.0)	ND (0.011)	ND (0.012)	ND (0.014)	ND (0.013)	ND (0.012)	ND (0.013)	ND (0.014)	ND (0.015)	ND (0.013)	ND (0.013)	ND (0.017)	ND (0.013)	ND (0.014)	ND (0.011)	ND (0.018)	ND (0.015)	ND (0.018)
VLRR-SS-25	8/21/2014	(3.0-3.5)	0.0762	ND (0.011)	0.0647	0.118	0.0924	0.0713	0.0499	0.0190 J	0.18	0.0193 J	0.236	ND (0.012)	0.0373	ND (0.0098)	0.0527	0.263	ND (0.015)
VLRR-SS-26	8/21/2014	(4.0-4.5)	1.7	ND (0.012)	1.93	1.4	0.901	0.612	0.341	0.198	1.8	0.12	2.72	2.21	0.265	0.0808	5.83	3.34	0.789 <sup>c</sup>
VLRR-SS-27	8/21/2014	(3.0-3.5)	0.0287 J	ND (0.011)	0.0388	0.0326 J	0.0192 J	0.0240 J	0.0154 J	ND (0.013)	0.0448	ND (0.012)	0.0949	ND (0.012)	ND (0.012)	ND (0.0096)	ND (0.016)	0.066	0.108 <sup>c</sup>
VLRR-SS-28	8/21/2014	(2.75-3.25)	ND (0.011)	ND (0.012)	0.0227 J	0.0371 J	0.0376 J	0.0318 J	0.0218 J	ND (0.015)	0.0545	ND (0.013)	0.0442	ND (0.013)	0.0183 J	ND (0.011)	0.0235 J	0.0525	ND (0.019)

#### AOC 63 Soil Sampling Analytical Summary Metals

Sample ID:	Date Sampled:	Depth:	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
	NJDEP NRDCSRS		-	450	19	59,000	140	78	-	-	590	45,000	-	800	-	5,900	65	23,000	-	5,700	5,700	-	-	1,100	110,000
	NJDEP RDCSRS NJDEP IGWSSL		78,000 6,000	31 6	19 19	16,000 2,100	0.7	78 2	-	-	1,600 90	3,100 11,000	-	400 90	-	11,000 65	23 0.1	1,600 48	-	390 11	390 1	-	3	78 -	23,000 930
VLRR-SS-1	8/18/2014	(2.0-2.5)	•							9.9		,		135		147	0.055	12						17.3	
VLRR-SS-2	8/18/2014	(3.5-4.0)	2,850 3,630	ND (2.3) ND (2.4)	10.6 <b>19.6</b>	74.9 64.1	0.45	ND (0.58) 0.71	999 1,220	14.7	7.6 ND (5.9)	157 35.3	20,300 35,900	30.4	ND (580) 1,800	155	0.055	14.4	ND (1,200) ND (1,200)	2.4	ND (0.58) 0.95	ND (1,200) ND (1,200)	ND (1.2) ND (1.2)	28.4	30.9 42.6
VLRR-SS-3	8/19/2014	(1.5-2.0)	1,730	ND (2.4)	11.9	43.7	ND (0.22)	ND (0.55)	583	10.4	ND (5.5)	42.7	26,100	47.6	ND (550)	90	0.093	9.5	ND (1,100)	ND (2.2)	1.5	ND (1,100)	ND (1.1)	17.6	27.9
VLRR-SS-4	8/19/2014	(2.5-3.0)	3,090	7.7	35.5	87.1	0.33	1.1	1,270	15.3	Q (5.5)	193	40,900	379	736	289	0.093	24.4	ND (1,100)	3.8	1.5	ND (1,100)	ND (1.1)	32.5	136
VLRR-SS-5	8/19/2014	(2.0-2.5)	1,990	3.5	11.2	41.4	ND (0.23)	ND (0.57)	1,060	8.8	ND (5.7)	79.9	13,500	128	ND (570)	81.9	0.14	12.9	ND (1,100)	ND (2.3)	1.6	ND (1,100)	ND (1.1)	17.2	36.9
VLRR-SS-6	8/18/2014	(1.75-2.25)	10,800	ND (2.0)	8.4	77.3	0.76	0.57	3,020	33.1	10.2	44.2	24,400	53.6	4.140	388	0.44	32.7	1,520	ND (2.0)	ND (0.50)	ND (1,000)	ND (1.1)	54.3	101
VLRR-SS-7	8/18/2014	(4.5-5.0)	5,350	ND (2.6)	17.4	53.4	0.70	0.77	1,250	22	6.7	105	27,400	131	1,630	185	0.11	17.6	ND (1,300)	ND (2.6)	ND (0.64)	ND (1,300)	ND (1.3)	35.5	67.4
VLRR-SS-8	8/20/2014	(2.0-2.5)	11,200	ND (2.3)	4.5	110	1.5	1.4	1,760	23.9	12.4	21.7	20,000	13	4,310	361	ND (0.039)	35.1	2,030	ND (2.3)	ND (0.56)	ND (1,100)	ND (1.1)	31.3	159
VLRR-SS-9	8/20/2014	(2.5-3.0)	12,900	ND (2.2)	4.2	89.4	0.72	ND (0.56)	707	25	7.8	51.8	20,300	11.6	4,220	186	ND (0.034)	21.1	2,040	ND (2.2)	ND (0.56)	ND (1,100)	ND (1.1)	28.2	53.6
VLRR-SS-9	8/20/2014	(6.5-7.0)	2,750	ND (2.0)	2	21.5	0.3	ND (0.50)	2,340	10.5	ND (5.0)	11.4	6,690	7	858	73.9	0.087	10.5	ND (1,000)	ND (2.0)	ND (0.50)	ND (1,000)	ND (1.0)	13.9	33.1
VLRR-SS-10	8/19/2014	(3.0-3.5)	3,480	ND (2.4)	3.9	31.6	ND (0.24)	ND (0.59)	1,910	10.9	ND (5.9)	33.1	12,800	28.1	961	81.5	0.048	10	ND (1200)	ND (2.4)	1.1	ND (1,200)	ND (1.2)	14.9	63.1
VLRR-SS-11	8/19/2014	(2.5-3.0)	5,520	2.7	17.1	90.2	0.4	0.98	1,860	21.1	11	114	38,000	167	1,880	234	0.099	25.8	ND (1300)	ND (2.6)	2.3	ND (1,300)	ND (1.3)	40.7	129
VLRR-SS-12	8/19/2014	(2.5-3.0)	11,900	ND (2.2)	12.9	146	0.66	0.65	2,190	47.7	9.5	43.2	25,900	54.4	3,290	267	0.06	24.5	1530	ND (2.2)	1.5	ND (1,100)	ND (1.1)	61.4	89.1
VLRR-SS-12	8/19/2014	(3.75-4.25)	6,970	ND (2.9)	16.4	106	0.42	ND (0.73)	2,300	29.9	ND (7.3)	37.8	24,200	50.1	1,340	157	0.074	14.7	ND (1,500)	ND (2.9)	2	ND (1,500)	ND (1.5)	60.2	45.3
VLRR-SS-14	8/19/2014	(2.0-2.5)	9,220	ND (2.2)	13.8	83.1	0.48	0.66	1,280	30.8	9	57.7	24,100	66.6	2,890	287	0.14	22.6	1,550	ND (2.2)	1.9	ND (1,100)	ND (1.1)	40.1	96.6
VLRR-SS-15	8/21/2014	(2.5-3.0)	8,610	ND (2.2)	5.5	129	0.64	ND (0.55)	2,110	17.3	8.5	13	20,700	11.1	3,910	769	ND (0.033)	17.2	1,700	ND (2.2)	0.84	ND (1,100)	ND (1.1)	26.5	43.4
VLRR-SS-16	8/21/2014	(1.5-2.0)	4,490	ND (2.1)	4.3	21.7	0.27	ND (0.52)	ND (520)	14.8	ND (5.2)	7	13,900	12.8	1,570	85.2	0.055	8.2	1,230	ND (2.1)	0.66	ND (1,000)	ND (1.0)	18.8	30.9
VLRR-SS-17	8/21/2014	(4.0-4.5)	10,400	ND (2.4)	5.7	62.6	0.68	ND (0.59)	1,620	28.2	8.4	23.6	24,700	16.7	4,230	306	0.082	20.3	1,920	ND (2.4)	0.87	ND (1,200)	ND (1.2)	31	58.7
VLRR-SS-18	8/20/2014	(4.0-4.5)	7,400	ND (2.3)	10.8	79.6	0.59	ND (0.57)	1,960	68.7	7.8	44.2	23,300	48.6	2,790	255	0.17	25	1,390	ND (2.3)	1	ND (1,100)	ND (1.1)	46.8	101
VLRR-SS-19	8/20/2014	(4.0-4.5)	5,790	ND (2.3)	5.1	38.5	0.39	ND (0.59)	1,730	24	ND (5.9)	16.4	15,900	21.7	2,180	237	0.046	13.1	1,230	ND (2.3)	0.76	ND (1,200)	ND (1.2)	21.5	48.8
VLRR-SS-19	8/20/2014	(5.5-6.0)	2,260	3.4	29.4	29.1	0.4	0.79	881	11.7	ND (4.9)	119	14,000	174	ND (490)	88.4	0.24	9.6	ND (990)	ND (2.0)	1.2	ND (990)	ND (0.99)	25.1	56.6
VLRR-SS-20	8/20/2014	(2.5-3.0)	7,200	ND (2.3)	8.6	90.3	0.56	0.61	2,470	88.7	7.7	50.8	24,400	55.1	2,720	529	0.11	19	1,370	ND (2.3)	0.92	ND (1,100)	ND (1.1)	31.2	102
VLRR-SS-21	8/20/2014	(5.25-5.75)	3,510	ND (2.4)	16	30	0.44	0.69	910	46.5	11.4	107	37,400	156	929	115	0.11	19.1	ND (1,200)	ND (2.4)	ND (0.60)	ND (1,200)	ND (1.2)	22.1	59
VLRR-SS-22	8/22/2014	(1.5-2.0)	3,600	ND (2.2)	4.8	24.4	0.37	ND (0.54)	664	15.3	ND (5.4)	20.7	12,500	31.2	1,080	48.2	0.069	7.7	ND (1,100)	ND (2.2)	ND (0.54)	ND (1,100)	ND (1.1)	18.1	34.7
VLRR-SS-23	8/21/2014	(2.5-3.0)	6,250	ND (2.1)	4.9	45.8	0.71	ND (0.52)	4,740	22.8	6.8	42.1	17,100	40.8	2,610	223	0.04	21.1	1,160	ND (2.1)	0.62	ND (1,000)	ND (1.0)	23.9	158
VLRR-SS-24	8/21/2014	(4.5-5.0)	9,920	ND (2.1)	4.6	36.3	0.97	0.58	2,480	22.7	11.4	54.2	24,700	13.9	3,840	317	ND (0.038)	23.7	2,060	ND (2.1)	0.75	ND (1,000)	ND (1.0)	25.5	83.3
VLRR-SS-25	8/21/2014	(3.0-3.5)	7,220	ND (2.1)	6	64.8	1.4	0.53	4,840	56.9	14.7	228	22,200	188	2,570	334	0.089	84.1	1,150	ND (2.1)	0.88	ND (1,000)	ND (1.0)	28.2	695
VLRR-SS-26	8/21/2014	(4.0-4.5)	11,700	2.4	13.8	180	1.8	0.79	4,650	105	20.8	190	32,100	300	2,040	207	0.21	108	1,240	ND (2.3)	0.58	ND (1,100)	ND (1.1)	68	489
VLRR-SS-27	8/21/2014	(3.0-3.5)	8,320	ND (2.3)	6	45.8	0.57	ND (0.57)	1,380	25.1	7.9	35.6	19,900	57.1	3,540	219	0.063	20.7	1,560	ND (2.3)	0.97	ND (1,100)	ND (1.1)	34.6	128
VLRR-SS-28	8/21/2014	(2.75-3.25)	5,210	ND (2.3)	10.6	31.4	0.44	ND (0.58)	941	16.5	6.7	43.2	21,000	33.2	2,230	133	0.049	17	ND (1,200)	ND (2.3)	0.86	ND (1,200)	ND (1.2)	21.4	77

ND-Not Detected NA- Not Analyzed J- Estimated Value -- Standard Not Available All results in mg/kg, unless otherwise noted NJDEP = New Jersey Department of Environmental Protection
IGWSSL- Impact to Groundwater Soil Screening Level
RDCSRS- Residential Direct Contact Soil Remediation Standard
NRDCSRS- Non-residential Direct Contact Soil Remediation Standard

Indicates concentration is above applicable NRDCSRS Indicates concentration is above applicable RDCSRS Indicates concentration is above applicable IGWSSL

#### AOC 85 Soil Sampling Analytical Summary Volatile Organic Compounds (VOCs)

Sample ID:	Date Sampled:	Depth:	Total EPH	Acetone	Benzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Cyclohexane	1,2-Dibromo-3- chloropropane	Dibromochloromethane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene
NJ	DEP NRDCSRS		-	-	5	-	3	280	59	44,000	110,000	4	7,400	1,100	2	12	-	0.2	8	0.04	59,000	59,000	13	230,000	24	3	150	560
	JDEP RDCSRS			70,000	2	-	1	81	25	3,100	7,800	2	510	220	0.6	4	-	0.08	3	0.008	5,300	5,300	5	490	8	0.9	11	230
N	JDEP IGWSSL		•	19	0.005	-	0.005	0.03	0.04	0.9	6	0.005	0.6	-	0.4	-	-	0.005	0.005	0.005	17	19	2	39	0.2	0.005	0.008	0.3
MVRU-SS-1	8/27/2014	0.5-1.0	43.5	0.0066 J	ND (0.00017)	ND (0.00027)	ND (0.00020)	ND (0.00017)	ND (0.00028)	ND (0.0018)	0.00059 J	ND (0.00014)	ND (0.00013)	ND (0.00027)	ND (0.00013)	ND (0.00029)	ND (0.00034)	ND (0.00038)	ND (0.00017)	ND (0.00017)	ND (0.00018)	ND (0.00019)	ND (0.00016)	ND (0.00050)	ND (0.00018)	ND (0.00024)	ND (0.00026)	ND (0.00025)
MVRU-SS-2	8/27/2014	0.5-1.0	21	ND (0.0054)	ND (0.00038)	ND (0.00060)	ND (0.00044)	ND (0.00039)	ND (0.00063)	ND (0.0041)	0.0034 J	ND (0.00031)	ND (0.00030)	ND (0.00062)	ND (0.00029)	ND (0.00066)	ND (0.00077)	ND (0.00085)	ND (0.00038)	ND (0.00039)	ND (0.00041)	ND (0.00042)	ND (0.00036)	ND (0.0011)	ND (0.00040)	ND (0.00055)	ND (0.00060)	ND (0.00056)
MVRU-SS-3	8/27/2014	13.0-13.5	239	0.0097 J	0.00023 J	ND (0.00030)	ND (0.00022)	ND (0.00019)	ND (0.00032)	ND (0.0020)	0.0023	ND (0.00016)	0.00046 J	ND (0.00031)	ND (0.00015)	ND (0.00033)	0.00049 J	ND (0.00043)	ND (0.00019)	ND (0.00020)	ND (0.00021)	ND (0.00021)	ND (0.00018)	ND (0.00057)	ND (0.00020)	ND (0.00028)	ND (0.00030)	ND (0.00028)
MVRU-SS-4	8/26/2014	8.5-9.0	3010	0.0566	0.00030 J	ND (0.00033)	ND (0.00024)	ND (0.00021)	ND (0.00034)	0.0097 J	0.00077 J	ND (0.00017)	ND (0.00016)	ND (0.00034)	ND (0.00016)	ND (0.00036)	ND (0.00042)	ND (0.00046)	ND (0.00021)	ND (0.00021)	ND (0.00022)	ND (0.00023)	ND (0.00020)	ND (0.00062)	ND (0.00022)	ND (0.00030)	ND (0.00033)	ND (0.00031)
MVRU-SS-5	8/26/2014	9.0-9.5	405	0.13	ND (0.00018)	ND (0.00029)	ND (0.00021)	ND (0.00019)	ND (0.00030)	0.0235	0.0028	ND (0.00015)	ND (0.00014)	ND (0.00030)	ND (0.00014)	ND (0.00032)	ND (0.00037)	ND (0.00041)	ND (0.00018)	ND (0.00019)	ND (0.00020)	ND (0.00020)	ND (0.00017)	ND (0.00054)	ND (0.00019)	ND (0.00026)	ND (0.00029)	ND (0.00027)
MVRU-SS-5	8/26/2014	0.5-1.0	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MVRU-SS-6	8/27/2014	7.5-8.0	129	ND (0.17)	ND (0.012)	ND (0.019)	ND (0.014)	ND (0.012)	ND (0.020)	ND (0.13)	ND (0.020)	ND (0.0096)	ND (0.0094)	ND (0.019)	ND (0.0091)	ND (0.021)	0.0516 J	ND (0.026)	ND (0.012)	ND (0.012)	ND (0.013)	ND (0.013)	ND (0.011)	ND (0.035)	ND (0.013)	ND (0.017)	ND (0.019)	ND (0.018)

#### AOC 85 Soil Sampling Analytical Summary Volatile Organic Compounds (VOCs)

Sample ID:	Date Sampled:	Depth:	trans-1,2-Dichloroethene	1,2-Dichloropropane	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Isopropylbenzene	Methyl Acetate	Methylcyclohexane	Methyl Tert Butyl Ether	Methylene chloride	Styrene	1,1,2,2-Tetrachloroethane	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl chloride	m,p-Xylene	Methylcyclohexane	Methyl Tert Butyl Ether	Methylene chloride	Styrene
_	DEP NRDCSRS		720	5	7	7	110,000	-	-	-	320	230	260	3	1500	91,000	-	820	4,200	6	10	340,000	2	170,000	-	320	230	260
	JDEP RDCSRS		300	2	2	2	7,800	-	78,000	-	110	46	90	1	43	6,300	-	73	290	2	3	23,000	0.7	12,000	-	110	46	90
N	JDEP IGWSSL		0.6	0.005	0.005	0.005	13	-	22	-	0.2	0.01	3	0.007	0.005	1	-	0.7	0.3	0.02	0.01	34	0.005	19	-	0.2	0.01	3
MVRU-SS-1	8/27/2014	0.5-1.0	ND (0.00018)	ND (0.00016)	ND (0.00012)	ND (0.00016)	ND (0.00019)	ND (0.00018)	ND (0.0011)	ND (0.00021)	ND (0.00016)	ND (0.0014)	ND (0.00017)	ND (0.00021)	ND (0.00017)	ND (0.00022)	ND (0.00020)	ND (0.00017)	ND (0.00013)	ND (0.00021)	ND (0.00019)	ND (0.00016)	ND (0.00036)	ND (0.00039)	ND (0.00021)	ND (0.00016)	ND (0.0014)	ND (0.00017)
MVRU-SS-2	8/27/2014	0.5-1.0	ND (0.00041)	ND (0.00037)	ND (0.00028)	ND (0.00037)	ND (0.00042)	ND (0.00040)	ND (0.0024)	ND (0.00047)	ND (0.00036)	ND (0.0032)	ND (0.00039)	ND (0.00047)	ND (0.00038)	ND (0.00050)	ND (0.00044)	ND (0.00039)	ND (0.00030)	ND (0.00048)	ND (0.00043)	ND (0.00037)	ND (0.00081)	ND (0.00089)	ND (0.00047)	ND (0.00036)	ND (0.0032)	ND (0.00039)
MVRU-SS-3	8/27/2014	13.0-13.5	ND (0.00021)	ND (0.00019)	ND (0.00014)	ND (0.00018)	0.0019	0.011	ND (0.0012)	0.0054	ND (0.00018)	ND (0.0016)	ND (0.00020)	ND (0.00024)	ND (0.00019)	ND (0.00025)	ND (0.00022)	ND (0.00020)	ND (0.00015)	ND (0.00024)	ND (0.00022)	ND (0.00019)	ND (0.00041)	0.0063	0.0054	ND (0.00018)	ND (0.0016)	ND (0.00020)
MVRU-SS-4	8/26/2014	8.5-9.0	ND (0.00022)	ND (0.00020)	ND (0.00015)	ND (0.00020)	ND (0.00023)	0.00036 J	ND (0.0013)	ND (0.00026)	ND (0.00020)	ND (0.0018)	ND (0.00021)	ND (0.00026)	ND (0.00021)	ND (0.00027)	ND (0.00024)	ND (0.00021)	ND (0.00017)	ND (0.00026)	ND (0.00024)	ND (0.00020)	ND (0.00044)	ND (0.00048)	ND (0.00026)	ND (0.00020)	ND (0.0018)	ND (0.00021)
MVRU-SS-5	8/26/2014	9.0-9.5	ND (0.00020)	ND (0.00018)	ND (0.00013)	ND (0.00018)	ND (0.00020)	ND (0.00019)	ND (0.0011)	ND (0.00023)	ND (0.00017)	0.0019 J	ND (0.00019)	ND (0.00023)	ND (0.00018)	ND (0.00024)	ND (0.00021)	ND (0.00019)	ND (0.00015)	ND (0.00023)	ND (0.00021)	ND (0.00018)	ND (0.00039)	ND (0.00043)	ND (0.00023)	ND (0.00017)	0.0019 J	ND (0.00019)
MVRU-SS-5	8/26/2014	0.5-1.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MVRU-SS-6	8/27/2014	7.5-8.0	ND (0.013)	ND (0.012)	ND (0.0086)	ND (0.011)	0.0347 J	2.02	ND (0.075)	1.15	ND (0.011)	ND (0.10)	ND (0.012)	ND (0.015)	ND (0.012)	ND (0.016)	ND (0.014)	ND (0.012)	ND (0.0095)	ND (0.015)	ND (0.014)	ND (0.012)	ND (0.025)	0.0573 J	1.15	ND (0.011)	ND (0.10)	ND (0.012)

#### AOC 85 Soil Sampling Analytical Summary Volatile Organic Compounds (VOCs)

Sample ID:	Date Sampled:	Depth:	1,1,2,2-Tetrachloroethane	Tetrachloroethene	Toluene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl chloride	Xylene (total)	Total TIC, Volatile
	DEP NRDCSRS		3	1500	91,000	820	NA	6	10	340,000	2	170,000	-
	JDEP RDCSRS		0.007	43 0.005	6,300	73 0.7	160000 0.3	2 0.02	3 0.01	23,000	0.7 0.005	12,000 19	100/500
N.	JDEP IGWSSL		0.007	0.005	7	0.7	0.3	0.02	0.01	34	0.005	19	100/500
MVRU-SS-1	8/27/2014	0.5-1.0	ND (0.00021)	ND (0.00017)	ND (0.00022)	ND (0.00017)	ND (0.00013)	ND (0.00021)	ND (0.00019)	ND (0.00016)	ND (0.00036)	ND (0.00021)	0
MVRU-SS-2	8/27/2014	0.5-1.0	ND (0.00047)	ND (0.00038)	ND (0.00050)	ND (0.00039)	ND (0.00030)	ND (0.00048)	ND (0.00043)	ND (0.00037)	ND (0.00081)	ND (0.00047)	0
MVRU-SS-3	8/27/2014	13.0-13.5	ND (0.00024)	ND (0.00019)	ND (0.00025)	ND (0.00020)	ND (0.00015)	ND (0.00024)	ND (0.00022)	ND (0.00019)	ND (0.00041)	0.0088	4.004 J
MVRU-SS-4	8/26/2014	8.5-9.0	ND (0.00026)	ND (0.00021)	ND (0.00027)	ND (0.00021)	ND (0.00017)	ND (0.00026)	ND (0.00024)	ND (0.00020)	ND (0.00044)	0.00039 J	0.2041 J
MVRU-SS-5	8/26/2014	9.0-9.5	ND (0.00023)	ND (0.00018)	ND (0.00024)	ND (0.00019)	ND (0.00015)	ND (0.00023)	ND (0.00021)	ND (0.00018)	ND (0.00039)	ND (0.00022)	0.1213 J
MVRU-SS-5	8/26/2014	0.5-1.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MVRU-SS-6	8/27/2014	7.5-8.0	ND (0.015)	ND (0.012)	ND (0.016)	ND (0.012)	ND (0.0095)	ND (0.015)	ND (0.014)	ND (0.012)	ND (0.025)	0.0573 J	89.7 J

#### Table 3

#### Hess Corporation - Port Reading Refinery 750 Cliff Road, Port Reading, Middlesex County, New Jersey

AOC 85 Soil Sampling Analytical Summary Semi-Volatile Organic Compounds (SVOCs)

Sample ID:	Date Sampled:	Depth:	2-Chlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	4,6-Dinitro-o-cresol	2-Methylphenol	Pentachlorophenol	Phenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	Acenaphthene	Acenaphthylene	Acetophenone	Anthracene	Atrazine	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Butyl benzyl phthalate	1,1'-Biphenyl	Benzaldehyde	Carbazole
N.	JDEP NRDCSRS		2200	2100	14000	1400	68	3400	3	210,000	68000	74	37000	300000	5	30,000	2,400	17	2	17	30000	170	14000	240	68000	96
N	JDEP RDCSRS		310	180	1200	120	6	310	0.9	18000	6100	19	3400	-	2	17,000	210	5	0.5	5	380000	45	1200	61	6100	24
N	IJDEP IGWSSL		0.8	0.2	1	0.3	0.3	-	0.3	8	68	0.2	110	-	3	2400	0.2	8.0	0.2	2	-	25	230	140	-	-
MVRU-SS-4	8/26/2014	8.5-9.0	ND (0.039)	ND (0.063)	ND (0.066)	ND (0.048)	ND (0.048)	ND (0.045)	ND (0.067)	ND (0.041)	ND (0.046	) ND (0.037)	0.161	ND (0.013)	ND (0.0069)	ND (0.014)	ND (0.0077)	3.32	3.04	1.57	1.68	0.331	ND (0.023)	ND (0.0046)	ND (0.0090)	ND (0.018)
MVRU-SS-5	8/26/2014	9.0-9.5	ND (0.040)	ND (0.065)	ND (0.067)	ND (0.049)	ND (0.049)	ND (0.046)	ND (0.069)	ND (0.042)	ND (0.047	) ND (0.038)	0.0937	ND (0.013)	ND (0.0071)	ND (0.014)	ND (0.0079)	0.472	0.352	0.169	0.17	0.0409	ND (0.023)	ND (0.0047)	ND (0.0092)	ND (0.019)

#### Table

#### Hess Corporation - Port Reading Refinery 750 Cliff Road, Port Reading, Middlesex County, New Jersey

AOC 85 Soil Sampling Analytical Summary Semi-Volatile Organic Compounds (SVOCs)

Sample ID:	Date Sampled:	Depth:	Caprolactam	Chrysene	bis(2-Chloroethyl)ether	bis(2- Chloroisopropyl)ether	2,4-Dinitrotoluene	2,6-Dinitrotoluene	3,3'-Dichlorobenzidine	1,4-Dioxane	Dibenzo(a,h)anthracene	Di-n-butyl phthalate	Di-n-octyl phthalate	Diethyl phthalate	bis(2-Ethylhexyl)phthalate	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadien e	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	2-Methylnaphthalene	2-Nitroaniline	Naphthalene	Nitrobenzene	N-Nitroso-di-n- propylamine	N-Nitrosodiphenylamine	Phenanthrene	Pyrene
NJ	IDEP NRDCSRS		340000	1700	2	67	3	3	4	-	2	68000	27,000	550000	140	24000	24000	1	25	110	48	17	2,000	2400	23000	17	14	0.3	390	300000	18,000
N	JDEP RDCSRS		31000	450	0.4	23	0.7	1	1	-	0.5	6100	2,400	49000	35	2300	2300	0.3	6	45	12	5	510	230	39	6	5	0.2	99		1,700
N	JDEP IGWSSL		12	80	0.2	5	-	-	0.2	-	8.0	760	3300	88	1200	1300	170	0.2	0.9	320	0.2	7	0.2	8	-	25	0.2	0.2	0.4	-	840
MVRU-SS-4	8/26/2014	8.5-9.0	ND (0.012)	6.53	ND (0.012)	ND (0.012)	ND (0.017)	ND (0.015)	ND (0.010)	ND (0.026)	0.662	ND (0.0087)	ND (0.019)	ND (0.013)	ND (0.035)	0.43	0.115	ND (0.013)	ND (0.011)	ND (0.040)	ND (0.011)	0.626	ND (0.011)	ND (0.022)	ND (0.017)	ND (0.011)	ND (0.011)	ND (0.0096)	ND (0.023)	0.107	7.09
MVRU-SS-5	8/26/2014	9.0-9.5	ND (0.013)	0.709	ND (0.012)	ND (0.012)	ND (0.018)	ND (0.015)	ND (0.010)	ND (0.026)	0.0485	0.118	ND (0.020)	ND (0.014)	0.0432 J	0.102	0.0271 J	ND (0.013)	ND (0.011)	ND (0.041)	ND (0.011)	0.0455	ND (0.011)	ND (0.022)	ND (0.018)	0.044	ND (0.012)	ND (0.0098)	ND (0.024)	ND (0.018)	0.841

ND-Not Detected
NA- Not Analyzed
J- Estimated Value
-- Standard Not Available

NJDEP = New Jersey Department of Environmental Protection IGWSSL- Impact to Groundwater Soil Screening Level RDCSRS- Residential Direct Contact Soil Remediation Standard NRDCSRS- Non-residential Direct Contact Soil Remediation Standard

All results in mg/kg, unless otherwise noted

Indicates concentration is above applicable NRDCSRS Indicates concentration is above applicable RDCSRS Indicates concentration is above applicable IGWSSL

### AOC 100 Soil Sampling Analytical Summary Volatile Organic Compounds (VOCs)

Sample ID:	Date Sampled:	Depth:	ЕРН	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,2-Dibromo-3- chloropropane	Dibromochloromethane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	cis-1,3-Dichloropropene
	NJDEP NRDCSRS	3	-	-	5	3	280	59	44,000	110000	4	7400	1,100	2	12	0.2	8	0.04	59,000	59,000	13	230,000	24	3	150	560	720	5	7
	NJDEP RDCSRS		-	70,000	2	1	81	25	3,100	7800	2	510	220	0.6	4	0.08	3	0.008	5300	5300	5	490	8	0.9	11	230	300	2	2
	NJDEP IGWSSL		-	19	0.005	0.005	0.03	0.04	0.9	6	0.005	0.6	-	0.4	-	0.005	0.005	0.005	17	19	2	39	0.2	0.005	0.008	0.3	0.6	0.005	0.005
FP-SS-1	8/25/2014	3.5-4.0	1660	0.0333	0.0011	ND (0.00032)	ND (0.00028)	ND (0.00045)	0.0061 J	ND (0.00046)	ND (0.00022)	0.0011 J	ND (0.00045)	ND (0.00021)	ND (0.00047)	ND (0.00061)	ND (0.00027)	ND (0.00028)	ND (0.00030)	ND (0.00030)	ND (0.00026)	ND (0.00081)	ND (0.00029)	ND (0.00040)	ND (0.00043)	ND (0.00041)	ND (0.00030)	ND (0.00027)	ND (0.00020)
FP-SS-2	8/25/2014	4.5-5.0	71.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
FP-SS-3	8/25/2014	6.5-7.0	2,910	0.158	ND (0.00018)	ND (0.00021)	ND (0.00018)	ND (0.00030)	0.0447	ND (0.00030)	ND (0.00014)	ND (0.00014)	ND (0.00029)	ND (0.00014)	ND (0.00031)	ND (0.00040)	ND (0.00018)	ND (0.00018)	ND (0.00019)	ND (0.00020)	ND (0.00017)	ND (0.00053)	ND (0.00019)	ND (0.00026)	ND (0.00028)	ND (0.00026)	ND (0.00019)	ND (0.00017)	ND (0.00013)
FP-SS-4	8/25/2014	3.0-3.5	2570	0.106	ND (0.00019)	ND (0.00022)	ND (0.00019)	ND (0.00031)	0.0223	ND (0.00031)	ND (0.00015)	ND (0.00015)	ND (0.00030)	ND (0.00014)	ND (0.00032)	ND (0.00041)	ND (0.00019)	ND (0.00019)	ND (0.00020)	ND (0.00021)	ND (0.00017)	ND (0.00055)	ND (0.00020)	ND (0.00027)	ND (0.00029)	ND (0.00028)	ND (0.00020)	ND (0.00018)	ND (0.00013)
FP-SS-5	8/25/2014	2.5-3.0	1010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
FP-SS-6	8/25/2014	4.5-5.0	9,550	0.0451	ND (0.00022)	ND (0.00025)	ND (0.00022)	ND (0.00036)	0.0099 J	0.00058 J	ND (0.00018)	ND (0.00017)	ND (0.00036)	ND (0.00017)	ND (0.00038)	ND (0.00049)	ND (0.00022)	ND (0.00023)	ND (0.00024)	ND (0.00024)	ND (0.00021)	ND (0.00065)	ND (0.00023)	ND (0.00032)	ND (0.00034)	ND (0.00032)	ND (0.00024)	ND (0.00021)	ND (0.00016)
FP-SS-7	8/26/2014	3.0-3.5	340	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
FP-SS-8	8/26/2014	3.5-4.0	944	0.0127	ND (0.00021)	ND (0.00024)	ND (0.00021)	ND (0.00034)	ND (0.0022)	ND (0.00034)	ND (0.00017)	ND (0.00016)	ND (0.00033)	ND (0.00016)	ND (0.00035)	ND (0.00045)	ND (0.00020)	ND (0.00021)	ND (0.00022)	ND (0.00023)	ND (0.00019)	ND (0.00061)	ND (0.00022)	ND (0.00029)	ND (0.00032)	ND (0.00030)	ND (0.00022)	ND (0.00020)	ND (0.00015)
FP-SS-9	8/26/2014	8.0-8.5	3210	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
FP-SS-10	8/26/2014	4.5-5.0	5,880	0.0598	ND (0.00027)	ND (0.00031)	ND (0.00027)	ND (0.00044)	0.0099 J	ND (0.00044)	ND (0.00021)	ND (0.00021)	ND (0.00043)	ND (0.00020)	ND (0.00046)	ND (0.00059)	ND (0.00026)	ND (0.00027)	ND (0.00028)	ND (0.00029)	ND (0.00025)	ND (0.00078)	ND (0.00028)	ND (0.00038)	ND (0.00041)	ND (0.00039)	ND (0.00028)	ND (0.00026)	ND (0.00019)
FP-SS-11	9/23/2014	0.5-1.0	4,900	0.0694a	ND (0.00019)	ND (0.00021)	ND (0.00019)	ND (0.00031)	0.0054 J	ND (0.00031)	ND (0.00015)	ND (0.00015)	ND (0.00030)	ND (0.00014)	ND (0.00032)	ND (0.00041)	ND (0.00018)	ND (0.00019)	ND (0.00020)	ND (0.00020)	ND (0.00017)	ND (0.00055)	ND (0.00019)	ND (0.00027)	ND (0.00029)	ND (0.00027)	ND (0.00020)	ND (0.00018)	ND (0.00013)
FP-SS-12	9/23/2014	1.5-2.0	160	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
FP-SS-13	9/23/2014	4.0-4.5	ND (0.20)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
FP-SS-14	9/23/2014	2.0-2.5	790	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

### AOC 100 Soil Sampling Analytical Summary Volatile Organic Compounds (VOCs)

Sample ID:	Date Sampled:	Depth:	trans-1,3-Dichloropropene	Ethylbenzene	Isopropylbenzene	Methyl Acetate	Methylcyclohexane	Methyl Tert Butyl Ether	Methylene chloride	Styrene	1,1,2,2-Tetrachloroethane	Tetrachloroethene	Toluene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl chloride	Xylene (total)	Total TIC, Volatile
	NJDEP NRDCSRS	3	7	110,000	-	-	-	320	230	260	3	1,500	91,000	820	4,200	6	10	340,000	2	170,000	-
	NJDEP RDCSRS		2	7800	-	78000	-	110	46	90	1	43	6300	73	290	2	3	23000	0.7	12000	-
	NJDEP IGWSSL		0.005	13	-	22	-	0.2	0.01	3	0.007	0.005	7	0.7	0.3	0.02	0.01	34	0.005	19	-
FP-SS-1	8/25/2014	3.5-4.0	ND (0.00026)	0.0019	ND (0.00028)	ND (0.0017)	ND (0.00034)	ND (0.00026)	ND (0.0023)	ND (0.00028)	ND (0.00034)	ND (0.00027)	0.00069 J	ND (0.00028)	ND (0.00022)	ND (0.00035)	ND (0.00031)	ND (0.00027)	ND (0.00058)	0.0101	0.0586 J
FP-SS-2	8/25/2014	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
FP-SS-3	8/25/2014	6.5-7.0	ND (0.00017)	ND (0.00020)	0.00026 J	ND (0.0011)	0.0019 J	ND (0.00017)	ND (0.0015)	ND (0.00018)	ND (0.00022)	ND (0.00018)	ND (0.00024)	ND (0.00018)	ND (0.00014)	ND (0.00022)	ND (0.00020)	ND (0.00017)	ND (0.00038)	0.0018	0.789 J
FP-SS-4	8/25/2014	3.0-3.5	ND (0.00018)	ND (0.00020)	ND (0.00019)	ND (0.0012)	ND (0.00023)	ND (0.00018)	0.0020 J	ND (0.00019)	ND (0.00023)	ND (0.00019)	ND (0.00025)	ND (0.00019)	ND (0.00015)	ND (0.00023)	ND (0.00021)	ND (0.00018)	ND (0.00040)	0.00061 J	0.365 J
FP-SS-5	8/25/2014	2.5-3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
FP-SS-6	8/25/2014	4.5-5.0	ND (0.00021)	0.00084 J	0.0029 J	ND (0.0014)	0.0010 J	ND (0.00021)	ND (0.0019)	ND (0.00022)	ND (0.00027)	ND (0.00022)	0.00031 J	ND (0.00022)	ND (0.00017)	ND (0.00028)	ND (0.00025)	ND (0.00021)	ND (0.00047)	0.0022	11.1 J
FP-SS-7	8/26/2014	3.0-3.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
FP-SS-8	8/26/2014	3.5-4.0	ND (0.00020)	ND (0.00022)	ND (0.00021)	ND (0.0013)	ND (0.00025)	ND (0.00019)	ND (0.0017)	ND (0.00021)	ND (0.00025)	ND (0.00021)	ND (0.00027)	ND (0.00021)	ND (0.00016)	ND (0.00026)	ND (0.00023)	ND (0.00020)	ND (0.00043)	0.00031 J	0.0306 J
FP-SS-9	8/26/2014	8.0-8.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
FP-SS-10	8/26/2014	4.5-5.0	ND (0.00025)	ND (0.00029)	0.00055 J	ND (0.0017)	0.00079 J	ND (0.00025)	ND (0.0022)	ND (0.00027)	ND (0.00033)	ND (0.00026)	0.00041 J	ND (0.00027)	ND (0.00021)	ND (0.00033)	ND (0.00030)	ND (0.00026)	ND (0.00056)	0.003	0.247 J
FP-SS-11	9/23/2014	0.5-1.0	ND (0.00018)	ND (0.00020)	0.00063 J	ND (0.0012)	ND (0.00023)	ND (0.00017)	ND (0.0016)	ND (0.00019)	ND (0.00023)	ND (0.00018)	ND (0.00024)	ND (0.00019)	ND (0.00015)	ND (0.00023)	ND (0.00021)	ND (0.00018)	ND (0.00039)	0.00026 J	0.833 J
FP-SS-12	9/23/2014	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
FP-SS-13	9/23/2014	4.0-4.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
FP-SS-14	9/23/2014	2.0-2.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

### AOC 100 Soil Sampling Analytical Summary Semi-Volatile Organic Compounds (SVOCs)

Sample ID:	Date Sampled:	Depth:	Acenaphthene	Acenaphthylene	Acetophenone	Anthracene	Atrazine	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Butyl benzyl phthalate	1,1'-Biphenyl	Benzaldehyde	Carbazole	Caprolactam	Chrysene	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	2,4-Dinitrotoluene	2,6-Dinitrotoluene	3,3'-Dichlorobenzidine	1,4-Dioxane	Dibenzo(a,h)anthracene	Dibenzofuran	Di-n-butyl phthalate
	NJDEP NRDCSRS	3	37000	300,000	5	30000	2400	17	2	17	30000	170	14,000	240	68,000	96	340,000	1,700	2	67	3	3	4	-	2	-	68,000
	NJDEP RDCSRS		3400	-	2	17000	210	5	0.5	5	380000	45	1,200	61	6100	24	31000	450	0.4	23	0.7	0.7	1	-	0.5	-	6100
	NJDEP IGWSSL		110	-	3	2400	0.2	0.8	0.2	2	-	25	230	140	-	-	12	80	0.2	5	-	-	0.2	-	0.8	-	760
FP-SS-1	8/25/2014	3.5-4.0	0.0721	0.092	ND (0.0080)	0.354	ND (0.0090)	0.817	0.823	1.17	0.411	0.391	ND (0.026)	0.0239 J	ND (0.010)	0.172	ND (0.014)	1.16	ND (0.014)	ND (0.014)	ND (0.020)	ND (0.017)	ND (0.012)	ND (0.030)	0.122	0.0389 J	0.212
FP-SS-3	8/25/2014	6.5-7.0	ND (0.010)	ND (0.011)	ND (0.0062)	0.0485	ND (0.0069)	0.0286 J	ND (0.011)	0.0171 J	ND (0.013)	ND (0.013)	ND (0.020)	ND (0.0041)	ND (0800.0)	ND (0.016)	ND (0.011)	0.0297 J	ND (0.011)	ND (0.010)	ND (0.015)	ND (0.013)	ND (0.0089)	ND (0.023)	ND (0.012)	ND (0.010)	ND (0.0078)
FP-SS-4	8/25/2014	3.0-3.5	ND (0.0096)	ND (0.011)	ND (0.0058)	ND (0.012)	ND (0.0065)	ND (0.011)	ND (0.010)	ND (0.011)	ND (0.012)	ND (0.012)	ND (0.019)	ND (0.0038)	ND (0.0076)	ND (0.015)	ND (0.010)	ND (0.011)	ND (0.0099)	ND (0.0098)	ND (0.014)	ND (0.013)	ND (0.0084)	ND (0.021)	ND (0.011)	ND (0.0098)	0.13
FP-SS-6	8/25/2014	4.5-5.0	1	ND (0.058)	ND (0.032)	ND (0.064)	ND (0.036)	ND (0.059)	ND (0.056)	ND (0.061)	ND (0.068)	ND (0.069)	ND (0.11)	ND (0.021)	ND (0.042)	ND (0.084)	ND (0.057)	ND (0.062)	ND (0.055)	ND (0.054)	ND (0.080)	ND (0.070)	ND (0.046)	ND (0.12)	ND	0.999	ND (0.041)
FP-SS-8	8/26/2014	3.5-4.0	ND (0.010)	ND (0.011)	ND (0.0062)	ND (0.012)	ND (0.0070)	ND (0.012)	ND (0.011)	0.0145 J	ND (0.013)	ND (0.013)	ND (0.020)	ND (0.0041)	ND (0.0081)	ND (0.016)	ND (0.011)	0.0147 J	ND (0.011)	ND (0.010)	ND (0.015)	ND (0.013)	ND (0.0090)	ND (0.023)	ND (0.012)	ND (0.010)	0.0956
FP-SS-10	8/26/2014	4.5-5.0	ND (0.012)	ND (0.013)	ND (0.0073)	ND (0.014)	ND (0.0081)	0.0456	0.0409 J	0.0452	0.0278 J	ND (0.016)	ND (0.024)	ND (0.0048)	ND (0.0095)	ND (0.019)	ND (0.013)	0.0642	ND (0.012)	ND (0.012)	ND (0.018)	ND (0.016)	ND (0.010)	ND (0.027)	ND (0.014)	ND (0.012)	0.155
FP-SS-11	9/23/2014	0.5-1.0	ND (0.020)	ND (0.022)	ND (0.012)	ND (0.024)	ND (0.013)	0.0622 J	0.0527 J	0.103	0.0386 J	0.0306 J	ND (0.040)	ND (0.0079)	ND (0.016)	ND (0.032)	ND (0.021)	0.126	ND (0.021)	ND (0.020)	ND (0.030)	ND (0.026)	ND (0.017)	ND (0.044)	ND (0.023)	ND (0.020)	ND (0.015)

#### AOC 100 Soil Sampling Analytical Summary Semi-Volatile Organic Compounds (SVOCs)

Sample ID:	Date Sampled:	Depth:	Di-n-octyl phthalate	Diethyl phthalate	bis(2-Ethylhexyl)phthalate	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	2-Methylnaphthalene	2-Nitroaniline	Naphthalene	Nitrobenzene	N-Nitroso-di-n-propylamine	N-Nitrosodiphenylamine	Phenanthrene	Pyrene	Total TIC, Semi-Volatile
	DEP NRDCS		27,000	550,000	140	24,000	24,000	1	25	110	48	17	2,000	2,400	23,000	17	14	0.3	390	300,000	18,000	-
	IDEP RDCSI		2400	49000	35	2300	2300	0.3	6	45	12	5	510	230	39	6	5	0.2	99	-	1700	-
N.	JDEP IGWS	SL	3300	88	1200	1300	170	0.2	0.9	320	0.2	7	0.2	8	-	25	0.2	0.2	0.4	-	840	-
FP-SS-1	8/25/2014	3.5-4.0	ND (0.022)	ND (0.016)	0.64	2.21	0.0611	ND (0.015)	ND (0.013)	ND (0.047)	ND (0.013)	0.425	ND (0.012)	0.0641 J	ND (0.020)	0.0734	ND (0.013)	ND (0.011)	ND (0.027)	0.483	1.99	29.78 J
FP-SS-3	8/25/2014	6.5-7.0	ND (0.017)	ND (0.012)	ND (0.031)	0.136	0.209	ND (0.011)	ND (0.0097)	ND (0.036)	ND (0.0097)	ND (0.012)	ND (0.0094)	ND (0.020)	ND (0.015)	ND (0.0095)	ND (0.010)	ND (0.0085)	ND (0.021)	0.0230 J	0.124	12.89 J
FP-SS-4	8/25/2014	3.0-3.5	ND (0.016)	ND (0.011)	ND (0.029)	0.0233 J	ND (0.011)	ND (0.011)	ND (0.0092)	ND (0.034)	ND (0.0092)	ND (0.011)	ND (0.0089)	ND (0.018)	ND (0.015)	ND (0.0090)	ND (0.0095)	ND (0.0081)	ND (0.020)	0.146	0.0395	13.23 J
FP-SS-6	8/25/2014	4.5-5.0	ND (0.089)	ND (0.062)	ND (0.16)	0.213	3.71	ND (0.059)	ND (0.051)	ND (0.19)	ND (0.051)	ND (0.063)	ND (0.049)	ND (0.10)	ND (0.080)	ND (0.050)	ND (0.053)	ND (0.045)	ND (0.11)	4.98	0.382	191.7 J
FP-SS-8	8/26/2014	3.5-4.0	ND (0.017)	ND (0.012)	ND (0.031)	0.0219 J	ND (0.012)	ND (0.012)	ND (0.0098)	ND (0.036)	ND (0.0098)	ND (0.012)	ND (0.0095)	ND (0.020)	ND (0.016)	ND (0.0096)	ND (0.010)	ND (0.0086)	ND (0.021)	ND (0.016)	0.0180 J	1.46 J
FP-SS-10	8/26/2014	4.5-5.0	ND (0.020)	ND (0.014)	0.105	0.103	0.96	ND (0.013)	ND (0.011)	ND (0.042)	ND (0.011)	0.0278 J	ND (0.011)	0.879	ND (0.018)	ND (0.011)	ND (0.012)	ND (0.010)	ND (0.025)	1.44	0.131	38.5 J
FP-SS-11	9/23/2014	0.5-1.0	ND (0.033)	ND (0.023)	ND (0.060)	0.188	0.565	ND (0.022)	ND (0.019)	ND (0.070)	ND (0.019)	0.0413 J	ND (0.018)	ND (0.038)	ND (0.030)	ND (0.019)	ND (0.020)	ND (0.017)	ND (0.041)	1.3	0.399	35.3 J

### AOC 100 Soil Sampling Analytical Summary PCBs

Sample ID:	Date Sampled:	Depth:	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1268	Aroclor 1262
N	IJDEP NRDCSR	S	1	1	1	1	1	1	1.0	1	1
ı	NJDEP RDCSRS	3	0.2	0	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	NJDEP IGWSSL		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
FP-SS-1	8/25/2014	3.5-4.0	ND (0.012)	ND (0.028)	ND (0.024)	ND (0.015)	ND (0.014)	ND (0.022)	ND (0.015)	ND (0.014)	ND (0.015)
FP-SS-3	8/25/2014	6.5-7.0	ND (0.0090)	ND (0.021)	ND (0.017)	ND (0.011)	ND (0.010)	ND (0.016)	ND (0.011)	ND (0.010)	ND (0.011)
FP-SS-4	8/25/2014	3.0-3.5	ND (0.0094)	ND (0.022)	ND (0.018)	ND (0.011)	ND (0.011)	ND (0.017)	ND (0.012)	ND (0.011)	ND (0.011)
FP-SS-6	8/25/2014	4.5-5.0	ND (0.010)	ND (0.024)	ND (0.020)	ND (0.013)	ND (0.012)	ND (0.019)	ND (0.013)	ND (0.012)	ND (0.013)
FP-SS-8	8/26/2014	3.5-4.0	ND (0.0091)	ND (0.021)	ND (0.018)	ND (0.011)	ND (0.011)	ND (0.016)	ND (0.012)	ND (0.010)	ND (0.011)
FP-SS-10	8/26/2014	4.5-5.0	ND (0.0097)	ND (0.023)	ND (0.019)	ND (0.012)	ND (0.011)	ND (0.018)	ND (0.012)	ND (0.011)	ND (0.012)

#### AOC 100 Soil Sampling Analytical Summary Metals

Sample ID:	Date Sampled:	Depth:	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
	NJDEP NRDCSR		-	450	19	59000	140	78	-	-	590	45000	-	800	-	5900	65	23000	-	5700	5700	-	-	1100	110000
	NJDEP RDCSRS		78000	31	19	16000	16	78	-	-	1600	3100	-	400	-	11000	23	1600	-	390	390	-	-	78	23000
	NJDEP IGWSSL		6000	6	19	2100	0.7	2	-	-	90	11000	-	90	-	65	0.1	48	-	11	1	-	3	-	930
FP-SS-1	8/25/2014	3.5-4.0	14,000	3.1	83.2	306	0.97	2.6	3,030	98.6	12.3	456	39,000	227	5,830	376	3.3	45.8	2,590	11.4	2	ND (1,000)	ND (1.0)	43.3	332
FP-SS-3	8/25/2014	6.5-7.0	3,470	ND (2.1)	6	ND (21)	0.34	ND (0.53)	ND (530)	15.1	ND (5.3)	10.8	18,800	5.5	1,460	88.7	0.047	13	ND (1,100)	ND (2.1)	ND (0.53)	ND (1,100)	ND (1.1)	17	37.3
FP-SS-4	8/25/2014	3.0-3.5	3,370	ND (2.2)	6	ND (22)	0.39	ND (0.55)	ND (550)	11.6	ND (5.5)	7.8	15,600	5.3	1,150	69.9	ND (0.036)	7.3	ND (1,100)	ND (2.2)	0.57	ND (1,100)	ND (1.1)	22.3	26.2
FP-SS-6	8/25/2014	4.5-5.0	4,080	ND (2.0)	8.8	ND (20)	0.37	ND (0.50)	547	40.3	ND (5.0)	12.1	23,000	9.6	1,730	105	ND (0.037)	9.2	ND (1,000)	ND (2.0)	ND (0.50)	ND (1,000)	ND (1.0)	46.3	29.3
FP-SS-8	8/26/2014	3.5-4.0	4,180	ND (2.2)	2.6	ND (22)	0.31	ND (0.55)	ND (550)	12	ND (5.5)	10.3	12,400	6.7	1,620	67.7	ND (0.032)	8.5	ND (1,100)	ND (2.2)	ND (0.55)	ND (1,100)	ND (1.1)	15.2	35.2
FP-SS-10	8/26/2014	4.5-5.0	11,600	ND (2.0)	18	101	0.89	1	2,990	46	12.8	88.5	35,700	45	4,830	381	0.44	27.6	2,470	ND (2.0)	ND (0.50)	ND (1,000)	ND (1.0)	38.8	105
FP-SS-11	9/23/2014	0.5-1.0	3,170	ND (2.2)	7.6	33.5	0.48	ND (0.55)	ND (550)	16.6	ND (5.5)	12.5	24,700	8.7	1,520	110	ND (0.036)	10.6	ND (1,100)	ND (2.2)	0.61	ND (1,100)	ND (1.1)	21.2	40.4

ND-Not Detected NA- Not Analyzed J- Estimated Value NS-Not Sampled -- Standard Not Available
All results in mg/kg, unless otherwise noted

NJDEP = New Jersey Department of Environmental Protection
IGWSSL- Impact to Groundwater Soil Screening Level
RDCSRS- Residential Direct Contact Soil Remediation Standard
NRDCSRS- Non-residential Direct Contact Soil Remediation Standard

Indicates concentration is above applicable NRDCSRS
Indicates concentration is above applicable RDCSRS
Indicates concentration is above applicable IGWSSL

### AOC 102 Soil Sampling Analytical Summary Volatile Organic Compounds (VOCs)

Sample ID:	Date Sampled:	Depth:	Acetone	Benzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,2-Dibromo-3- chloropropane	Dibromochloromethane	1,2-Dibromoethane
ı	NJDEP NRDCSR	S	-	5	-	3	280	59	44000	110000	4	7400	1100	2	12	0.2	8	0.04
	NJDEP RDCSRS	3	70000	2	-	1	81	25	3100	7800	2	510	220	0.6	4	0.08	3	0.008
	NJDEP IGWSSL		19	0.005	-	0.005	0.03	0.04	0.9	6	0.005	0.6	-	0.4	-	0.005	0.005	0.005
VLLD-SS-1	8/22/2014	3.5-4.0	ND (0.14)	ND (0.0099)	ND (0.015)	ND (0.011)	ND (0.0099)	ND (0.016)	ND (0.10)	ND (0.016)	ND (0.0079)	ND (0.0077)	ND (0.016)	ND (0.0075)	ND (0.017)	ND (0.022)	ND (0.0097)	ND (0.010)
VLLD-SS-2	8/22/2014	3.5-4.0	ND (0.0025)	ND (0.00018)	ND (0.00028)	ND (0.00021)	ND (0.00018)	ND (0.00030)	ND (0.0019)	ND (0.00030)	ND (0.00014)	ND (0.00014)	ND (0.00029)	ND (0.00014)	ND (0.00031)	ND (0.00040)	ND (0.00018)	ND (0.00018)
VLLD-SS-3	8/22/2014	4.5-5.0	ND (0.37)	ND (0.026)	ND (0.041)	ND (0.031)	ND (0.027)	ND (0.044)	ND (0.28)	ND (0.044)	ND (0.021)	ND (0.021)	ND (0.043)	ND (0.020)	ND (0.045)	ND (0.058)	ND (0.026)	ND (0.027)

### AOC 102 Soil Sampling Analytical Summary Volatile Organic Compounds (VOCs)

Sample ID:	Date Sampled:	Depth:	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Methyl Acetate	Methyl Tert Butyl Ether	Methylene chloride
	NJDEP NRDCSR	S	59000	59000	13	230000	24	3	150	560	720	5	7	7	110000	-	320	230
	NJDEP RDCSRS	3	5300	5300	5	490	8	0.9	11	230	300	2	2	2	7800	78000	110	46
	NJDEP IGWSSL		17	19	2	39	0.2	0.005	0.008	0.3	0.6	0.005	0.005	0.005	13	22	0.2	0.01
VLLD-SS-1	8/22/2014	3.5-4.0	ND (0.011)	ND (0.011)	ND (0.0092)	ND (0.029)	ND (0.010)	ND (0.014)	ND (0.015)	ND (0.014)	ND (0.011)	ND (0.0095)	ND (0.0071)	ND (0.0094)	ND (0.011)	ND (0.061)	ND (0.0092)	ND (0.083)
VLLD-SS-2	8/22/2014	3.5-4.0	ND (0.00019)	ND (0.00020)	ND (0.00017)	ND (0.00053)	ND (0.00019)	ND (0.00026)	ND (0.00028)	ND (0.00026)	ND (0.00019)	ND (0.00017)	ND (0.00013)	ND (0.00017)	ND (0.00020)	ND (0.0011)	ND (0.00017)	ND (0.0015)
VLLD-SS-3	8/22/2014	4.5-5.0	ND (0.028)	ND (0.029)	0.0898 J	ND (0.078)	ND (0.028)	ND (0.038)	ND (0.041)	ND (0.039)	ND (0.028)	ND (0.026)	ND (0.019)	ND (0.025)	ND (0.029)	0.232 J	ND (0.025)	ND (0.22)

### AOC 102 Soil Sampling Analytical Summary Volatile Organic Compounds (VOCs)

Sample ID:	Date Sampled:	Depth:	Styrene	1,1,2,2-Tetrachloroethane	Tetrachloroethene	Toluene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl chloride	Xylene (total)
	NJDEP NRDCSR	S	260	3	1500	91000	820	NA	6	10	340000	2	170000
	NJDEP RDCSRS		90	1	43	6300	73	160000	2	3	23000	0.7	12000
	NJDEP IGWSSL		3	0.007	0.005	7	0.7	0.3	0.02	0.01	34	0.005	19
VLLD-SS-1	8/22/2014	3.5-4.0	ND (0.010)	ND (0.012)	ND (0.0098)	ND (0.013)	ND (0.010)	ND (0.0078)	ND (0.012)	ND (0.011)	ND (0.0095)	ND (0.021)	ND (0.012)
VLLD-SS-2	8/22/2014	3.5-4.0	ND (0.00018)	ND (0.00022)	ND (0.00018)	ND (0.00024)	ND (0.00018)	ND (0.00014)	ND (0.00022)	ND (0.00020)	ND (0.00017)	ND (0.00038)	ND (0.00022)
VLLD-SS-3	8/22/2014	4.5-5.0	ND (0.027)	ND (0.033)	ND (0.026)	ND (0.035)	ND (0.027)	ND (0.021)	ND (0.033)	ND (0.030)	ND (0.026)	ND (0.056)	ND (0.032)

#### AOC 102 Soil Sampling Analytical Summary Semi-Volatile Organic Compounds (SVOCs)

Sample ID:	Date Sampled:	Depth:	2-Chlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	4,6-Dinitro-o-cresol	2-Methylphenol	Pentachlorophenol	Phenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	Acenaphthene	Acenaphthylene	Acetophenone	Anthracene	Atrazine	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene
N	JDEP NRDCSR	lS .	2200	2100	14000	1400	68	3400	3	210000	68000	74	37000	300000	5	30000	2400	17	2	17	30000
ı	NJDEP RDCSR	S	310	180	1200	120	6	310	0.9	18000	6100	19	3400	-	2	17000	210	5	0.5	5	380000
I	NJDEP IGWSSI	<u>L</u>	0.8	0.2	1	0.3	0.3	-	0.3	8	68	0.2	110	-	3	2400	0.2	0.8	0.2	2	NA
VLLD-SS-1	8/22/2014	3.5-4.0	ND (0.031)	ND (0.051)	ND (0.053)	ND (0.038)	ND (0.038)	ND (0.036)	ND (0.054)	ND (0.033)	ND (0.036)	ND (0.029)	ND (0.0091)	ND (0.010)	ND (0.0055)	ND (0.011)	ND (0.0062)	0.0150 J	ND (0.0096)	0.0138 J	ND (0.012)
VLLD-SS-2	8/22/2014	3.5-4.0	ND (0.033)	ND (0.053)	ND (0.056)	ND (0.040)	ND (0.040)	ND (0.038)	ND (0.057)	ND (0.035)	ND (0.038)	ND (0.031)	ND (0.0096)	ND (0.011)	ND (0.0058)	ND (0.012)	ND (0.0065)	0.0144 J	ND (0.010)	ND (0.011)	ND (0.012)
VLLD-SS-3	8/22/2014	4.5-5.0	ND (0.061)	ND (0.099)	ND (0.10)	ND (0.075)	ND (0.075)	ND (0.070)	ND (0.10)	ND (0.064)	ND (0.071)	ND (0.058)	ND (0.018)	0.152	ND (0.011)	ND (0.021)	ND (0.012)	0.496	0.467	0.516	0.293

#### Table 5

### Hess Corporation - Port Reading Refinery 750 Cliff Road, Port Reading, Middlesex County, New Jersey

#### AOC 102 Soil Sampling Analytical Summary Semi-Volatile Organic Compounds (SVOCs)

Sample ID:	Date Sampled:	Depth:	Benzo(k)fluoranthene	Butyl benzyl phthalate	1,1'-Biphenyl	Benzaldehyde	Carbazole	Caprolactam	Chrysene	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	2,4-Dinitrotoluene	2,6-Dinitrotoluene	3,3'-Dichlorobenzidine	1,4-Dioxane	Dibenzo(a,h)anthracene	Di-n-butyl phthalate	Di-n-octyl phthalate	Diethyl phthalate	bis(2-Ethylhexyl)phthalate	Fluoranthene
N	JDEP NRDCSR	RS	170	14000	240	68000	96	340000	1700	2	67	3	3	4	•	2	68000	27000	550000	140	24000
N	IJDEP RDCSR	S	45	1200	61	6100	24	31000	450	0.4	23	0.7	0.7	1	-	0.5	6100	2400	49000	35	2300
1	NJDEP IGWSSI	L	25	230	140	-	-	12	80	0.2	5	-	-	0.2	-	0.8	760	3300	88	1200	1300
VLLD-SS-1	8/22/2014	3.5-4.0	ND (0.012)	ND (0.018)	ND (0.0036)	ND (0.0072)	ND (0.015)	ND (0.0099)	0.0184 J	ND (0.0094)	ND (0.0093)	ND (0.014)	ND (0.012)	ND (0.0080)	ND (0.020)	ND (0.011)	ND (0.0070)	ND (0.015)	ND (0.011)	ND (0.028)	0.0204 J
VLLD-SS-2	8/22/2014	3.5-4.0	ND (0.012)	ND (0.019)	ND (0.0038)	ND (0.0076)	ND (0.015)	ND (0.010)	0.0149 J	ND (0.010)	ND (0.0098)	ND (0.014)	ND (0.013)	ND (0.0084)	ND (0.022)	ND (0.011)	ND (0.0074)	ND (0.016)	ND (0.011)	ND (0.029)	ND (0.015)
VLLD-SS-3	8/22/2014	4.5-5.0	0.133	ND (0.035)	ND (0.0071)	ND (0.014)	ND (0.028)	ND (0.019)	0.687	ND (0.018)	ND (0.018)	ND (0.027)	ND (0.023)	ND (0.016)	ND (0.040)	0.0705	0.100 J	ND (0.030)	ND (0.021)	22.3	1.46

#### AOC 102 Soil Sampling Analytical Summary Semi-Volatile Organic Compounds (SVOCs)

Sample ID:	Date Sampled:	Depth:	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	2-Methylnaphthalene	2-Nitroaniline	Naphthalene	Nitrobenzene	N-Nitroso-di-n-propylamine	N-Nitrosodiphenylamine	Phenanthrene	Pyrene
N	JDEP NRDCSR	RS	24000	1	25	110	48	17	2000	2400	23000	17	14	0.3	390	300000	18000
1	IJDEP RDCSR	S	2300	0.3	6	45	12	5	510	230	39	6	5	0.2	99	-	1700
ı	NJDEP IGWSSI	L	170	0.2	0.9	320	0.2	7	0.2	8	-	25	0.2	0.2	0.4	-	840
VLLD-SS-1	8/22/2014	3.5-4.0	ND (0.010)	ND (0.010)	ND (0.0087)	ND (0.032)	ND (0.0087)	ND (0.011)	ND (0.0084)	ND (0.018)	ND (0.014)	ND (0.0086)	ND (0.0091)	ND (0.0077)	ND (0.019)	ND (0.014)	0.0189 J
VLLD-SS-2	8/22/2014	3.5-4.0	ND (0.011)	ND (0.011)	ND (0.0092)	ND (0.034)	ND (0.0092)	ND (0.011)	ND (0.0089)	ND (0.018)	ND (0.015)	ND (0.0090)	ND (0.0096)	ND (0.0081)	ND (0.020)	ND (0.015)	0.0139 J
VLLD-SS-3	8/22/2014	4.5-5.0	ND (0.020)	ND (0.020)	ND (0.017)	ND (0.062)	ND (0.017)	0.239	ND (0.016)	ND (0.034)	ND (0.027)	0.0501 J	ND (0.018)	ND (0.015)	ND (0.037)	0.611	1.36

### AOC 102 Soil Sampling Analytical Summary Pesticides and PCBs

Sample ID:	Date Sampled:	Depth:	Aldrin	alpha-BHC	beta-BHC	gamma-BHC (Lindane)	alpha-Chlordane	gamma-Chlordane	Chlordane (alpha and gamma)	Dieldrin	4,4"-DDD	4,4'-DDE	4,4'-DDT	Endrin	Endosulfan sulfate	Endosulfan-I	Endosulfan-II	Heptachlor
1	NJDEP NRDCSR	S	0.2	0.5	2	2	1	1	1	0.2	13	9	8	340	6800	6800	6800	0.7
	NJDEP RDCSRS		0.04	0.1	0.4	0.4	0.2	0.2	0.2	0.04	3	2	2	23	470	470	470	0.1
	NJDEP IGWSSL		0.2	0.002	0.002	0.002	0.05	0.05	0.05	0.003	4	18	11	1	2	4	4	0.5
VLLD-SS-1	8/22/2014	3.5-4.0	ND (0.00031)	ND (0.00020)	ND (0.00042)	ND (0.00033)	ND (0.00025)	ND (0.00046)	ND (0.00025)	ND (0.00026)	0.0018	0.0046	0.0025	ND (0.00022)	ND (0.00029)	ND (0.00026)	ND (0.00040)	ND (0.00033)
VLLD-SS-2	8/22/2014	3.5-4.0	ND (0.00032)	ND (0.00021)	ND (0.00043)	ND (0.00034)	ND (0.00026)	ND (0.00048)	ND (0.00026)	ND (0.00027)	ND (0.00038)	ND (0.00028)	ND (0.00034)	ND (0.00022)	ND (0.00030)	ND (0.00026)	ND (0.00042)	ND (0.00034)
VLLD-SS-3	8/22/2014	4.5-5.0	ND (0.00070)	ND (0.00045)	ND (0.00094)	ND (0.00074)	ND (0.00056)	ND (0.0010)	ND (0.00056)	ND (0.00059)	ND (0.00083)	ND (0.00061)	ND (0.00074)	ND (0.00049)	ND (0.00065)	ND (0.00057)	ND (0.00091)	ND (0.00074)

### AOC 102 Soil Sampling Analytical Summary Pesticides and PCBs

Sample ID:	Date Sampled:	Depth:	Heptachlor epoxide	Methoxychlor	Toxaphene	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1268	Aroclor 1262
N	NJDEP NRDCSR	S	0.3	5700	3	1	1	1	1	1	1	1	1	1
	NJDEP RDCSRS	3	0.07	390	0.6	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	NJDEP IGWSSL		0.01	160	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
VLLD-SS-1	8/22/2014	3.5-4.0	ND (0.00025)	ND (0.00066)	ND (0.0085)	ND (0.0088)	ND (0.020)	ND (0.017)	ND (0.011)	ND (0.010)	ND (0.016)	ND (0.011)	ND (0.0099)	ND (0.011)
VLLD-SS-2	8/22/2014	3.5-4.0	ND (0.00026)	ND (0.00068)	ND (0.0087)	ND (0.0090)	ND (0.021)	ND (0.018)	ND (0.011)	ND (0.011)	ND (0.016)	ND (0.011)	ND (0.010)	ND (0.011)
VLLD-SS-3	8/22/2014	4.5-5.0	ND (0.00057)	ND (0.0015)	ND (0.019)	ND (0.020)	ND (0.045)	ND (0.038)	ND (0.024)	2.23	0.716	ND (0.025)	ND (0.022)	ND (0.024)

#### Table 5

### Hess Corporation - Port Reading Refinery 750 Cliff Road, Port Reading, Middlesex County, New Jersey

### AOC 102 Soil Sampling Analytical Summary Metals

Sample ID:	Date Sampled:	Depth:	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
1	NJDEP NRDCSR	S	-	450	19	59000	140	78	-	590	45000	800	5900	65	23000	5700	5700	-	1100	110000
	NJDEP RDCSRS		78000	31	19	16000	16	78	•	1600	3100	400	11000	23	1600	390	390	-	78	23000
	NJDEP IGWSSL		6000	6	19	2100	0.7	2	-	90	11000	90	65	0.1	48	11	1	3	-	930
VLLD-SS-1	8/22/2014	3.5-4.0	3490	ND (2.1)	16.9	ND (21)	0.79	0.84	69.1	ND (5.3)	24.4	13.2	142	0.093	10.3	ND (2.1)	ND (0.53)	ND (1.1)	37.5	50.9
VLLD-SS-2	8/22/2014	3.5-4.0	3730	ND (2.3)	7.8	ND (23)	0.56	ND (0.59)	21.4	ND (5.9)	9	6.6	118	ND (0.035)	11.2	ND (2.3)	ND (0.59)	ND (1.2)	17.9	37.4
VLLD-SS-3	8/22/2014	4.5-5.0	16600	4.7	92.1	393	1.7	12	245	14.2	769	327	347	8.3	58.5	11.9	6.2	ND (2.0)	78.5	621

ND-Not Detected NA- Not Analyzed J- Estimated Value -- Standard Not Available
All results in mg/kg, unless otherwise noted

NJDEP = New Jersey Department of Environmental Protection
IGWSSL- Impact to Groundwater Soil Screening Level
RDCSRS- Residential Direct Contact Soil Remediation Standard
NRDCSRS- Non-residential Direct Contact Soil Remediation Standard

Indicates concentration is above applicable NRDCSRS
Indicates concentration is above applicable RDCSRS
Indicates concentration is above applicable IGWSSL

### AOC 116 Soil Sampling Analytical Summary Extractable Petroleum Hydrocarbons (EPH)

Sample ID:	Date Sampled:	Depth:	ЕРН (С9-С28)	EPH (>C28-C40)	Total EPH (C9-C40)
NJD	EP NRDCSRS		ı	ı	-
NJI	DEP RDCSRS		•	•	-
NJ	DEP IGWSSL		ı	ı	-
DPG1-SS-1	7/22/2015	1.5-2.0 ft	63.3	60	123
DPG1-SS-2	7/22/2015	1.5-2.0 ft	36.5	65.5	102
DPG1-SS-3	7/22/2015	1.5-2.0 ft	24	37.7	61.7
DPG1-SS-4	7/22/2015	1.5-2.0 ft	ND (4.4)	ND (4.4)	ND (4.4)

ND-Not Detected -- Calculated Standard

NA- Not Analyzed All results in mg/kg, unless otherwise noted

J- Estimated Value

NJDEP = New Jersey Department of Environmental Protection

IGWSSL- Impact to Groundwater Soil Screening Level

RDCSRS- Residential Direct Contact Soil Remediation Standard

NRDCSRS- Non-residential Direct Contact Soil Remediation Standard

Indicates concentration is above applicable NRDCSRS Indicates concentration is above applicable RDCSRS Indicates concentration is above applicable IGWSSL

Table 7
Hess Corporation - Port Reading Refinery
750 Cliff Road, Port Reading, Middlesex County, New Jersey
AOC 16B Temporary Well Groundwater Analytical Restults Summary - VOCs

																	,	Volatile C	Organics															
Sample ID	Date	Acetone	Benzene	Bromodichloromethane	2-Butanone (MEK)	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Cyclohexane	Dibromochloromethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2 Dichloropropane	Ethylbenzene	Isopropylbenzene	Methyl Tert Butyl Ether	Methylene chloride	Methylcyclohexane	Tetrachloroethene	Tert Butyl Alcohol	Toluene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	Trichloroethene	Vinyl chloride	Xylene (total)	Total Volatile (TIC)
NJDEP GW	VQS (ug/l)	6,000	1	1	300	700	1	50	5	70	NA	1	600	600	75	50	1	70	100	1	700	700	70	3	NA	1	100	600	9	30	1	1	1,000	500
TL-TW-1	6/7/2012	ND	3.67	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.345 J	ND	ND	ND	1.01	1.4	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	57.9 J(4)
TL-TW-2	6/7/2012	ND	3.97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.07	8.69	0.70	ND	7.24	ND	NA	0.793 J	ND	ND	ND	ND	ND	328 J(8)
TL-TW-3	6/7/2012	262	303	ND	ND	20.2	ND	5	ND	ND	157	ND	ND	ND	ND	ND	ND	ND	ND	ND	722	241	ND	ND	209	ND	NA	30.9	ND	ND	ND	ND	469	5,740 J(10)
TL-TW-4	6/7/2012	ND	0.3	ND	ND	ND	ND	60.2	ND	ND	ND	ND	0.317 J	ND	0.35 J	ND	ND	ND	ND	ND	2.31	10.5	ND	ND	ND	ND	NA	0.311 J	ND	ND	ND	ND	5.50	91.3 J(8)
TL-TW-5	6/7/2012	ND	1,610	ND	ND	ND	ND	569	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12,800	315	ND	ND	177 J	ND	NA	ND	ND	ND	ND	ND	28,700	5,450 J(5)
TL-TW-6	6/7/2012	ND	1,550	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	79.4	114	ND	ND	62.3	ND	NA	20.9	ND	ND	ND	ND	36.1 J	1,760 J(7)
TL-TW -13	6/18/2012	ND	66.9	ND	ND	ND	ND	ND	ND	4.5 J	120	ND	ND	ND	ND	ND	ND	ND	ND	ND	234	168	ND	ND	247	ND	NA	2.59J	ND	ND	ND	ND	66.4	12700 J(15)
TL-TW-14	10/10/2014	33.8	ND	ND	6.9 J	0.70 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	154.2 J
TL-TW-15	10/10/2014	ND	1490	ND	ND	ND	ND	ND	ND	ND	5190	ND	ND	ND	ND	ND	ND	ND	ND	ND	9550	4140	ND	ND	ND	ND	ND	12200	ND	ND	ND	ND	68400	86900 J
TL-TW-17	10/7/2014	ND	ND	ND	ND	ND	ND	ND	ND	DN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0

Table 7
Hess Corporation - Port Reading Refinery
750 Cliff Road, Port Reading, Middlesex County, New Jersey
AOC 16B Temporary Well Groundwater Analytical Restults Summary - SVOCs

																		Base N	eutrals																
Sample ID	Date	Acenaphthene	Acenaphthylene	Anthracene	Acetophenone	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Bis(2-Ethylhexyl) phthala	Chrysene	Carbazole	Caprolactam	2-Chloronaphthalene	Dibenzo(a,h)anthracene	Dibenzofuran	1,4 Dioaxane	2,4-Dinitrotoluene/2,6- Di	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Butyl benzyl phthalate	1,1'-Biphenyl	4-Chloroaniline	Di-n-butyl phthalate	Di-n-octyl phthalate	Diethyl phthalate	Isophorone	2-Methylnaphthalene	N-Nitroso-di-n-propylami	Total Semi-Volatile (TIC)
NJDEP G	WQS (ug/l)	400	100	2,000	700	0.1	0.1	0.2	100	0.5	3	5	NA	5000	600	0.3	NA	10	10	300	300	0.2	300	100	200	100	400	30	700	100	6,000	40	30	10	500
TL-TW-1	6/7/2012	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.4	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	0.322 J	ND	ND	ND	ND	ND	0.369 J	ND	ND	ND	ND	ND	17.9 J(2)
TL-TW-2	6/7/2012	0.388 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	0.968 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	235 J(13)
TL-TW-3	6/7/2012	5.76 J	ND	4.25 J	ND	3.80	3.33	3.43 J	4.95 J	3.45 J	ND	4 J	4.95 J	ND	ND	3.29	3.43 J	NA	NA	8.06 J	8.62 J	4.4 J	499	15.2	9.38 J	ND	8.22 J	ND	ND	ND	ND	ND	283	ND	7,320 J(15)
TL-TW-4	6/7/2012	0.888 J	ND	ND	ND	ND	ND	ND	ND	ND	1.91	ND	ND	ND	ND	ND	ND	NA	NA	ND	0.869 J	ND	0.616 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.53	ND	222 J(15)
TL-TW-5	6/7/2012	2.20 J	ND	1.23 J	ND	1.01	0.629	1.16	1.30 J	0.5	4.45	1 J	1.44 J	ND	ND	0.421	1.12 J	NA	NA	2.56 J	2.54 J	0.550	262	5.27	2.85 J	ND	3.44	ND	0.996 J	ND	ND	ND	71.8	ND	11,600 J(15)
TL-TW-6	6/7/2012	1.24	ND	0.531 J	ND	0.508	0.284	0.327	0.392 J	0.1	1.06	0.5 J	ND	ND	ND	0.1	0.498 J	NA	NA	0.501 J	1.66	0.1	104	2.36	1.24	ND	0.558 J	ND	0.445 J	ND	ND	ND	43.7	ND	676 J(15)
TL-TW -13	6/18/2012	0.647J	ND	ND	ND	0.391	0.231	0.154	ND	0.1	ND	0.6 J	ND	ND	ND	ND	ND	NA	NA	ND	1.20 J	ND	200	1.81J	ND	ND	3.17	ND	ND	ND	ND	ND	49.6	ND	1830 J(15)
TL-TW-14	10/10/2014	ND	ND	ND	ND	0.12	ND	ND	ND	ND	1.4 J	0.19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.773	ND	ND	ND	6.4 B	ND	ND	ND	ND	ND	256.4 J
TL-TW-15	10/10/2014	ND	ND	619	ND	85.0	ND	ND	ND	ND	ND	135	ND	ND	ND	ND	ND	ND	ND	209	3130	ND	23300	5160	1300	ND	8120	ND	ND	ND	ND	ND	98500	ND	332000 J
TL-TW-17	10/7/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.2 J

#### Table 7 Hess Corporation - Port Reading Refinery 750 Cliff Road, Port Reading, Middlesex County, New Jersey AOC 16B Temporary Well Groundwater Analytical Restults Summary - Metals

		Gene	ral Chem	nistry												Metals											
Sample ID	Date	Monoethanolamine	Methanol	Ammonia	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Mangansese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
NJDEP GV	VQS (ug/l)	NA	4,000	3,000	200	6	3	2,000	1	4	NA	70	100	1,300	300	5	NA	50	2	100	NA	40	40	50,000	0.5	NA	2,000
TL-TW-1	6/7/2012	NA	NA	NA	44,200	ND	35	2,130	24	4	161,000	121	191	103	345,000	261	74,000	7,170	ND	180	21,100	16.6	ND	345,000	ND	323	1,230
TL-TW-2	6/7/2012	NA	NA	NA	12,600	ND	ND	142 J	ND	ND	75,800	91	35.7 J	ND	166,000	23	172,000	857	ND	94.2	59,800	ND	ND	1,470,000	ND	157	436
TL-TW-3	6/7/2012	NA	NA	NA	43,600	ND	13	322 J	12	ND	125,000	294	93.6	ND	668,000	52	195,000	5,480	ND	150	623,000	ND	ND	1,490,000	ND	476	872
TL-TW-4	6/7/2012	NA	NA	NA	64,900	ND	17	1,090	11	ND	63,000	522	132	ND	1,720,000	26	14,900	5,630	ND	246	21,800	ND	ND	86,600	ND	915	1,190
TL-TW-5	6/7/2012	NA	NA	NA	17,100	ND	15	1,440	12	11	14,700	63	123	ND	264,000	2,010	6,590	6,420	ND	54.0	5,450	ND	ND	95,700	ND	224	1,350
TL-TW-6	6/7/2012	NA	NA	NA	25,200	ND	ND	1,110	ND	ND	41,100	188	78.1 J	ND	956,000	8	47,500	7,990	ND	170	21,900	ND	ND	82,200	ND	327	484
TL-TW -13	6/18/2012	NA	NA	NA	18,900	ND	13	1,060	10	ND	51,000	157	81.9	25.2	424,000	172	66,100	3,610	ND	118	32,600	ND	ND	55,800	ND	325	490
TL-TW-14	10/10/2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TL-TW-15	10/10/2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TL-TW-17	10/7/2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ND-Not Detected NA- Not Analyzed J- Estimated Value

-- Standard Not Available All results in ug/l, unless otherwise noted NJDEP = New Jersey Department of Environmental Protection GWQS- Groundwater Quality Standards Indicates concentration is above applicable GWQS

### Table 8 Hess Corporation - Port Reading Refinery 750 Cliff Road, Port Reading, Middlesex County, New Jersey Monitoring Well Annual Groundwater Analytical Restults Summary

		1																									V	/olatile Org	anics																							
Client Sample ID	Date Sampled:	Acetone	Benzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Cyclohexane	1,2-Dibromo-3- chloropropane	Dibromochloromethane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Freon 113	2-Hexanone	Isopropylbenzene Methyl Acetate	Methylcyclohexane	Methyl Tert Butyl Ether	4-Methyl-2- pentanone(MIBK)	Methylene chloride	Styrene	Tert Butyl Alcohol	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-1 ricinorveniano Trichloroethene	Trichlorofluoromethane	Vinyl chloride	m.p-Xylene	o-Xylene	Xylene (total)	Total TIC, Volatile
NJ Groun	lwater Criteria	6000	1	-	1	4	10	300	700	1	50	-	70	-	-	0.02	1	0.03	600	600	75	1000	50	2	1	70	100	1	-	- 70	00 20	0000	10 7	700 7000	- (	70	-	3	100	100 1	1	600	- 1	9	30 :	3 1	200	00 1	4 -		1000	-
TL-1	12/5/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND N	1 dv	ND DI	ID N	ND ND	ND	1.1	ND	ND	ND 3	32.8 NI	) ND	ND	ND	ND	ND N	ND ND	) NE	D ND	O ND	) ND	ND	0
TL-2	12/5/2017	ND	77	ND	ND	ND	ND	ND	ND	ND	1.4	ND	ND	ND	87.7	ND	ND	ND	ND	ND	0.84 J	ND	ND	ND	ND	ND	ND	ND	ND	ND 1	11 1	ND DI	1D 8	33.6 ND	54.1	1	ND	ND	ND	ND NI	) ND	5	ND	ND	ND N	D ND	) NE	D ND	6.3	3 5.4	11.7	3840 J
TL-3	12/5/2017	ND	3.5	ND	ND	ND	ND	ND	ND	ND	38	ND	ND	ND	1.7 J	ND	ND	ND	0.72 J	0.79 J	3	ND	ND	ND	ND	ND	ND	ND	ND	ND 0.6	66 J 1	1 dv	ND 1	102 ND	ND	ND	ND	ND	ND	ND NI	) ND	0.67 J	ND	ND	ND N	ND ND	) NE	D ND	O ND	0.75 J	0.75 J	814 J
PER-7	12/5/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND N	1 dv	ND DI	ID N	ND ND	ND	ND	ND	ND	ND	ND NI	) ND	ND	ND	ND	ND N	ND ND	) NE	D ND	O ND	) ND	ND	0
PER-8	12/5/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND N	1 dv	ND DI	1D 0.2	28 J ND	ND	ND	ND	ND	ND	ND NI	) ND	0.26 J	ND	ND	ND N	ND ND	) NE	D ND	O ND	) ND	ND .	22.4 J
TL-1	11/26/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.7 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND N	1 DV	1 DV	1D N	ND ND	1.5 J	ND	ND	ND	ND	ND NI	) ND	ND	ND	ND	ND N	ND ND	) NE	D ND	O ND	) ND	ND	31.5 J
TL-2	11/26/2018	ND	53	ND	ND	ND	ND	ND	ND	ND	1	ND	ND	ND	76.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND 14	4.1	ND DI	1D 7	71 ND	45.8	ND	ND	ND	ND	ND NI	) ND	3.2	ND	ND	ND N	ND ND	) NE	D ND	5.6	3.1	8.7	3227 J
TL-3	11/26/2018	ND	0.5	ND	ND	ND	ND	ND	ND	ND	5.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.78 J	ND	ND	ND	ND	ND	ND	ND	ND	ND N	1 DV	MD DN	1D 3	3.3 ND	ND	ND	ND	ND	ND	ND NI	) ND	ND	ND	ND	ND N	ND ND	) NE	D ND	O ND	) ND	ND	11.4 J
PER-7	11/26/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND N	1 dv	ND DI	ID N	ND ND	ND	ND	ND	ND	ND	ND NI	) ND	ND	ND	ND	ND N	ND ND	) NE	D ND	O ND	) ND	ND	0
PER-8	11/26/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND N	1 DV	MD DN	1D N	ND ND	ND	ND	ND	ND	ND	ND NI	) ND	ND	ND	ND	ND N	ND ND	) NE	D ND	O ND	) ND	ND	0
TL-1	11/6/2019	6.2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND N	1 DV	1 DV	1D N	ND ND	ND	ND	ND	ND	ND	15 NI	) ND	ND	ND	ND	ND N	ND ND	) NE	D ND	O ND	) ND	ND	14.8 J
TL-2	11/6/2019	10.1	39	ND	ND	ND	ND	ND	ND	ND	0.66 J	ND	ND	ND	65.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND 4	1.7	MD DN	1D 6	8.2 ND	37.9	ND	ND	ND	ND 1	7.6 NI	) ND	2.9	ND	ND	ND N	D ND	) NE	D ND	2.4	1 2.4	4.8	3406 J
TL-3	11/6/2019	ND	0.8	ND	ND	ND	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND N	1 DV	MD DN	ND 2	20 ND	ND	ND	ND	ND	ND	ND NI	) ND	ND	ND	ND	ND N	ND ND	) NE	D ND	O ND	) ND	ND 2	243.4 J
PER-7	11/6/2019	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND N	1 DV	MD DN	1D N	ND ND	ND	ND	ND	ND	ND	ND NI	) ND	ND	ND	ND	ND N	ND ND	) NE	D ND	) ND	) ND	ND	0
PER-8	11/6/2019	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND N	1 dv	1 dv	1D N	ND ND	ND	ND	ND	ND	ND	ND NI	) ND	ND	ND	ND	ND N	ND ND	) NE	D ND	O ND	) ND	ND	0
TL-1	12/9/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND N	1 dv	ND N	1D DI	ND ND	ND	ND	ND	ND	ND 8	3.9J NI	) ND	ND	ND	ND	ND N	ND ND	) NE	D ND	D ND	) ND	ND	0
TL-2	12/1/2020	ND	27.8	ND	ND	ND	ND	ND	ND	ND	0.70J	ND	ND	ND	47.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND 8	3.9	ND DN	1D 6	32.1 ND	13.5	ND	ND	ND	ND	ND NI	) ND	2	ND	ND	ND N	ND ND	) NE	D ND	2.8	, 2.4	5.2	5185J
TL-3	12/1/2020	8.8J	1.5	ND	ND	ND	ND	ND	0.69	ND	23	ND	ND	ND	1.8	ND	ND	ND	ND	ND	2.2	ND	ND	ND	ND	ND	ND	ND	ND	ND N	1 dv	ND N	ND 1	114 ND	ND	ND	ND	ND	ND	ND NI	) ND	0.77J	ND	ND	ND N	ND ND	) NE	D ND	D ND	0/76J	0.76J 1	1141.3J
PER-7	12/1/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND N			1D N	ND ND	ND	ND	ND	ND	ND	ND NI	) ND	ND	ND	ND	ND N	ND ND	) NE	D ND	D ND	) ND	ND	0
PER-8	12/9/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND N	1 DV	MD DN	1D N	ND ND	ND	ND	ND	ND	ND	ND NI	) ND	ND	ND	ND	ND N	ND ND	) NE	D ND	O ND	) ND	ND	0

ND-Not Detected NA- Not Analyzed J- Estimated Value

-- Standard Not Available
All results in ug/l, unless otherwise noted

All results in ug/l, unless otherwise noted

All results in ug/l, unless otherwise noted

GWQSIndicates concentration is above applicable GWQS

### Table 8 Hess Corporation - Port Reading Refinery 750 Cliff Road, Port Reading, Middlesex County, New Jersey Monitoring Well Annual Groundwater Analytical Restults Summary

																											Base Ne	eutrals																						
San	ient Da ple ID: Samp	te bled:	Acenaphthene	Acenaphthylene Acetonhenone	Anthracene	Atrazine	Benzaldehyde	Benzo(g,h,i)perylene	4-Bromophenyl phenyl ether	Butyl benzyl phthalate	1,1-Biphenyl	2-Chloronaphthalene	4-Chloroaniline	Carbazole	Caprolactam	Chrysene	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	2,4-Dinitrotoluene	2,6-Dinitrotoluene	3,3'-Dichlorobenzidine	Dibenzofuran	Di-n-butyl phthalate	Di-n-octyl phthalate	Diethyl phthalate	Dimethyl phthalate	bis(2-Ethylhexyl)phthalate	Fluoranthene	Fluorene	nexacinotocyclopentatiene	Hexachloroethane Isophorone	2-Methylnaphthalene	2-Nitroaniline	3-Nitroaniline	4-Nitroaniline	Nitrobenzene	N-Nitroso-di-n-propylamine	N-Nitrosodiphenylamine	rnenantirene		1,2,4,5-1etracniorobenzene	Benz o(a)antinracene Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Dibenz o(a, h)anthracene	Hexachlorobenzene	Indeno(1,2,3-cd)pyrene	1,4-Dioxane	Total TIC, Semi-Volatile
NJ (	roundwater Cr	iteria	400	- 70	2000	3	-	-	-	100	400	600	30	-	4000	5	-	7 :	.00	-	-	30	0.4	-	700	100	6000	3	300	300 4	0	7 40	30			- 30	0 6	10	10	- 2	00	- 0	.1 0.1	0.2	0.5	0.3	0.02 1	0.2	2 0.4	-
	L-1 12/5/2	2017	ND N	ID N	D ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND I	ND	ND	ND N	O ND	NE	ND.	ND	ND	ND	ND	ND	ND	ND	ND N	D N	ND ND	ND	ND	ND I	ND N	) ND	ND	ND N	ID N	D N	ID N	ID ND	ND	ND	ND	ND NE	D NE	D ND	0
-	L-2 12/5/2	2017 0.	0.65 J N	ID N	D ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND I	ND	ND	ND N	O ND	NE	) ND	ND	ND	ND	ND	ND	ND	ND	0.95 J	D N	ND ND	23.9	ND	ND I	ND 73	.6 ND	ND	ND 0.6	61 J N	D N	ID N	ID ND	ND	ND	ND	ND NE	D NE	D ND	1157.7 J
	L-3 12/5/2	2017	3.4 N	N D	D 1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3 I	ND	ND	ND N	O ND	NE	ND ND	3.1 J	ND	ND	ND	ND	7.5 <sup>f</sup>	2.2	4.5 N	D N	ND ND	ND	ND	ND I	ND N	) ND	ND	ND 4	.8 3	.4 N	ID 0.	.7 0.4	0.5	0.1	ND	ND NE	D 0.2	2 ND	1449 J
Р	R-7 12/5/2	2017	ND N	ID N	D ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND I	ND	ND	ND N	O ND	NE	) ND	ND	ND	ND	ND	ND	ND	ND	ND N	D N	ND ND	ND	ND	ND I	ND N	O ND	ND	ND N	ID N	D N	ID N	ID ND	ND	ND	ND	ND NE	D NE	D ND	0
Р	ER-8 12/5/2	2017	ND N	ID N	D ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND I	ND	ND	ND N	O ND	NE	) ND	ND	ND	ND	ND	ND	ND	ND	ND N	D N	ND ND	ND	ND	ND I	ND N	O ND	ND	ND N	ID N	D N	ID 0	.2 0.1	0.2	ND	ND	ND NE	D 0.1	1 ND	0
-	L-1 11/26/	2018	ND N	ID N	D ND	ND	ND	0.75 J °	e ND	ND	ND	ND	ND	ND	ND	0.35 J	ND	ND	ND N	O ND	NE	) ND	ND	ND	ND	ND	ND	ND	0.26 J	ND N	D N	ND ND	ND	ND	ND I	ND N	O ND	ND	ND N	ID 0.3	0J N	ID 0	.2 0.4	0.5	0.2	ND	ND NE	0.5	5 ND	10 J
	L-2 11/26/	2018 0.	0.53 J N	ID N	D ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND I	ND	ND	ND N	O ND	NE	) ND	ND	ND	ND	ND	ND	ND	ND	0.86 J N	D N	ND ND	13.3	ND	ND I	ND 69	7 ND	ND	ND 0.5	i5 J N	D N	ID 0.	02 ND	ND	ND	ND	ND NE	D NE	D ND	977 J
	L-3 11/26/	2018 0.	0.58 J N	N D	D ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND I	ND	ND	ND N	O ND	NE	) ND	0.48 J	ND	ND	ND	ND	ND	ND	ND N	D N	ND ND	ND	ND	ND I	ND N	O ND	ND	ND N	ID N	D N	ID N	ID ND	ND	ND	ND	ND NE	D NE	D ND	12.9 J
Р	R-7 11/26/	2018	ND N	N D	D ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND I	ND	ND	ND N	O ND	NE	) ND	ND	ND	ND	ND	ND	ND	ND	ND N	D N	ND ND	ND	ND	ND I	ND N	O ND	ND	ND N	ID N	D N	ID N	ID ND	ND	ND	ND	ND NE	D NE	D ND	4.7 J
Р	R-8 11/26/	2018	ND N	ID N	D ND	ND	ND	0.51 J '	e ND	ND	ND	ND	ND	ND	ND	0.63 J	ND	ND	ND N	O ND	NE	) ND	ND	ND	ND	ND	ND	ND	0.76 J	ND N	D N	ND ND	ND	ND	ND I	ND N	) ND	ND	ND 0.2	1 J 0.6	3 J N	ID 0	.2 0.3	0.6	0.2	ND	ND NE	D 0.3	3 ND	5.5 J
	L-1 11/6/2	2019	ND N	ID N	D ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND I	ND	ND	ND N	O ND	NE	) ND	NA	ND	ND	ND	ND	ND	ND	ND N	D N	ND ND	ND	ND	ND I	ND N	) ND	ND	ND N	ID N	D N	ID 0	.2 0.05	0.1	ND	ND	ND NE	D 0.1	1 0.0481	71.8 J
	L-2 11/6/2	2019 0.	1.46 J N	ID N	D ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND I	ND	ND	ND N	O ND	NE	) ND	NA	ND	ND	ND	ND	ND	ND	0.63 J N	D N	ND ND	10.5	ND	ND I	ND 10	4 ND	ND	ND 0.3	6J N	D N	ID 0	.2 ND	ND	ND	ND	ND NE	D NE	D ND 7	763.7 J
	L-3 11/6/2	2019	1.5 N	ID N	D ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND I	ND	ND	ND N	O ND	NE	) ND	NA	1.0 J	ND	ND	ND	ND	0.26 J	0.72 J N	D N	ND ND	ND	ND	ND I	ND N	) ND	ND	ND N	ID 0.3	1 J <sup>k</sup> N	ID 0	.3 ND	0.1	ND	ND	ND NE	D NE	D 0.0616	253 J
Р	R-7 11/6/2	2019	ND N	ID N	D ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND I	ND	ND	ND N	O ND	NE	) ND	NA	ND	ND	ND	ND	ND	ND	ND N	D N	ND ND	ND	ND	ND I	ND NI	O ND	ND	ND N	ID N	D N	ID N	ID ND	0.1	ND	ND	ND NE	D NE	D 0.0511	0
Р	R-8 11/6/2	2019	ND N	ID N	D ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND I	ND	ND	ND N	O ND	NE	) ND	NA	ND	ND	ND	ND	ND	ND	ND N	D N	ND ND	ND	ND	ND I	ND N	) ND	ND	ND N	ID N	D N	ID 0	.2 0.1	0.2	0.1	ND	ND NE	D 0.1	1 ND	0
	L-1 12/9/2	2020	ND N	ID N	D ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND I	ND	ND	ND N	O ND	NE	) ND	ND	ND	ND	ND	ND	ND	ND	ND N	D N	ND ND	ND	ND	ND I	ND N	) ND	ND	ND N	ID N	D N	ID <b>0.1</b>	176 ND	0.1	ND	ND	ND NE	D 0.1	1 ND	7.9J
	L-2 12/1/2	2020 0	).72J N	ID N	D ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND I	ND	ND	ND N	O ND	NE	) ND	ND	ND	ND	ND	ND	ND	ND	0.63 J N	D N	ND ND	4.3	ND	ND I	ND 51	2 ND	ND	ND 0.3	72J N	D N	ID N	ID ND	ND	ND	ND	ND NE	D NE	D ND 1	1229.3J
-	L-3 12/1/2	2020	1.9 N	ID N	D ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND I	ND	ND	ND N	O ND	NE	) ND	1.5J	ND	ND	ND	ND	ND	0.26 J	0.72 J N	D N	ND ND	ND	ND	ND I	ND 1.	1 ND	ND	ND 0.4	16J 0.3	6J N	ID <b>0.1</b>	134 ND	ND	ND	ND	ND NE	D NE	D ND	661J
Р	R-7 12/1/2	2020	ND N	ID N	D ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND I	ND	ND	ND N	O ND	NE	) ND	ND	ND	ND	ND	ND	ND	ND	ND N	D N	ND ND	ND	ND	ND I	ND NI	) ND	ND	ND N	ID N	D N	ID N	ID ND	ND	ND	ND	ND NE	D NE	D ND	0
Р	R-8 12/9/2	2020	ND N	ID N	D ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND I	ND	ND	ND N	O ND	NE	) ND	ND	ND	ND	ND	ND	ND	ND	ND N	D N	ND ND	ND	ND	ND I	ND NI	) ND	ND	ND N	ID N	D N	ID <b>0.1</b>	139 ND	0.1	ND	ND	ND NE	D NE	D ND	0

ND-Not Detected NA- Not Analyzed J- Estimated Value

-- Standard Not Available
All results in ug/l, unless otherwise noted

NJDEP = New Jersey Department of Environmental Protection
GWQS- Groundwater Quality Standards
Indicates concentration is above applicable GWQS

#### Table 8 Hess Corporation - Port Reading Refinery 750 Cliff Road, Port Reading, Middlesex County, New Jersey Monitoring Well Annual Groundwater Analytical Restults Summary

													Meta	ls											
Client Sample ID:	Date Sampled:	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Nitrogen, Ammonia
NJ Groundw	ater Criteria	200	6	3	6000	1	4	-	70	100	1300	300	5	-	50	2	100	-	40	40	50000	2	-	2000	3000
TL-1	12/5/2017	<200	<6.0	<3.0	<200	<1.0	<3.0	39300	<10	<50	<10	4560	<3.0	21000	596	<0.20	<10	22700	<10	<10	613000	<2.0	<50	<20	3.6
TL-2	12/5/2017	<200	<6.0	9	<200	<1.0	<3.0	12400	<10	<50	<10	15900	<3.0	16700	203	<0.20	<10	15200	<10	<10	161000	<2.0	<50	<20	0.67
TL-3	12/5/2017	3450	<6.0	10	<200	<1.0	<3.0	51300	10.9	<50	15	17100	6	46300	448	<0.20	<10	22800	<10	<10	503000	<2.0	<50	37.7	1.3
PER-7	12/5/2017	58400 <sup>i</sup>	<60 <sup>i</sup>	75	<2000 i	<10 <sup>i</sup>	<30 <sup>i</sup>	<50000 i	144 <sup>i</sup>	<500 <sup>i</sup>	170 <sup>i</sup>	152000 <sup>i</sup>	247 <sup>i</sup>	<50000 <sup>i</sup>	607 <sup>i</sup>	0.87 <sup>i</sup>	<100 <sup>i</sup>	<100000 i	<100 <sup>i</sup>	<100 <sup>i</sup>	<100000 <sup>i</sup>	<20 <sup>i</sup>	<500 i	304 <sup>i</sup>	<0.20
PER-8	12/5/2017	293	<6.0	8	<200	<1.0	<3.0	13800	<10	<50	<10	17200	5.8	<5000	224	<0.20	<10	<10000	<10	<10	123000	<2.0	<50	25.8	0.7
TL-1	11/26/2018	1990	<6.0	2	<200	<1.0	<3.0	11200	<10	<50	28.7	5490	11.4	<5000	127	<0.20	<10	<10000	<10	<10	176000	<1.0	<50	28.8	0.61
TL-2	11/26/2018	<200	<6.0	7	<200	<1.0	<3.0	14500	<10	<50	<10	16700	<3.0	15300	186	<0.20	<10	12800	<10	<10	130000	<1.0	<50	<20	0.69
TL-3	11/26/2018	603	<6.0	2	<200	<1.0	<3.0	84400	<10	<50	<10	13600	<3.0	27000	209	<0.20	<10	<10000	<10	<10	334000	<1.0	<50	<20	0.74
PER-7	11/26/2018	52100	<30	56	<1000	<5.0	<15	<25000	122	<250	128	144000	236	<25000	542	1.3	65.5	<50000	<50	<50	<50000	<5.0 <sup>f</sup>	<250	253	<0.20
PER-8	11/26/2018	987	<6.0	<1.0	<200	<1.0	<3.0	<5000	<10	<50	11.3	1770	11.5	<5000	<15	<0.20	<10	<10000	<10	<10	<10000	<1.0	<50	161	<0.20
TL-1	11/6/2019	<200	<6.0	4	<200	<1.0	<3.0	26000	<10	<50	<10	7460	<3.0	8270	194	<0.20	<10	<10000	<10	<10	182000	<1.0	<50	<20	1600
TL-2	11/6/2019	<200	<6.0	7	<200	<1.0	<3.0	9790	<10	<50	<10	12700	<3.0	11300	157	<0.20	<10	10400	<10	<10	64100	<1.0	<50	<20	940
TL-3	11/6/2019	4750	<6.0	7	<200	<1.0	<3.0	175000	19.9	<50	28.9	37300	7.2	142000	639	0.44	15.5	37800	<10	<10	1140000	<1.0	<50	59.8	1500
PER-7	11/6/2019	34600	<30	36	<1000	<5.0	<15	<25000	74	<250	88	84500	119	<25000	272	0.81	<50	<50000	<50	<50	<50000	<5.0 °	<250	214	<200
PER-8	11/6/2019	<200	<6.0	<1.0	<200	<1.0	<3.0	7440	<10	<50	10.2	314	<3.0	<5000	<15	<0.20	<10	<10000	<10	<10	<10000	<1.0	<50	96.5	<200
TL-1	12/9/2020	444	<6.0	2	<200	<1.0	<3.0	17400	<10	<50	11.9	4550	<3.0	6810	158	<0.20	<10	<10000	<10	<10	234000	<1.0	<50	42.4	1200
TL-2	12/1/2020	<200	<6.0	7	<200	<1.0	<3.0	21900	<10	<50	<10	34800	<3.0	27700	461	<0.20	<10	21700	<10	<10	74100	<1.0	<50	<20	810
TL-3	12/1/2020	1160	<6.0	7	<200	<1.0	<3.0	25600	40.1	<50	<10	6500	<3.0	22900	130	0.44	27.2	15900	<10	<10	250000	<1.0	<50	21.9	660
PER-7	12/1/2020	8070	<30	7	<1000	<5.0	<15	<25000	<50	<250	<50	14200	21	<25000	<75	0.81	<50	<50000	<50	<50	<50000	<5.0 °	<250	<100	<200
PER-8	12/9/2020	<200	<6.0	<1.0	<200	<1.0	<3.0	11000	<10	<50	10	280	<3.0	<5000	<15	<0.20	<10	<10000	<10	<10	<10000	<1.0	<50	66.4	<200

ND-Not Detected NA- Not Analyzed J- Estimated Value -- Standard Not Available All results in ug/l, unless otherwise noted NJDEP = New Jersey Department of Environmental Protection GWQS- Groundwater Quality Standards
Indicates concentration is above applicable GWQS

Table 9
Hess Corporation - Port Reading Refinery
750 Cliff Road, Port Reading, Middlesex County, New Jersey
AOC 103 Groundwater Analytical Results

														Vo	latile Organic	<b>S</b>												
Sample ID:	Date:	Acetone	Benzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Cyclohexane	1,2-Dibromo-3-chloropropane	Dibromochloromethane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane
NJ Gro	undwater	6000	1	-	1	4	10	300	700	1	50	5	70	-	-	0.02	1	0.03	600	600	75	1000	50	2	1	70	100	1
FA-1	1/29/2020	ND (6.0)	ND (0.43)	ND (0.48)	ND (0.58)	ND (0.63)	ND (1.6) <sup>a</sup>	ND (6.9)	ND (0.95)	ND (0.55)	ND (0.56)	ND (0.73)	ND (0.50)	ND (0.76)	ND (0.78)	ND (1.2)	ND (0.56)	ND (0.48)	ND (0.53)	ND (0.54)	ND (0.51)	ND (1.4)	ND (0.57)	ND (0.60)	ND (0.59)	ND (0.51)	ND (0.54)	ND (0.51)
FA-2	1/29/2020	ND (6.0)	ND (0.43)	ND (0.48)	ND (0.58)	ND (0.63)	ND (1.6) <sup>a</sup>	ND (6.9)	ND (0.95)	ND (0.55)	ND (0.56)	ND (0.73)	ND (0.50)	ND (0.76)	ND (0.78)	ND (1.2)	ND (0.56)	ND (0.48)	ND (0.53)	ND (0.54)	ND (0.51)	ND (1.4)	ND (0.57)	ND (0.60)	ND (0.59)	ND (0.51)	ND (0.54)	ND (0.51)
FA-3	1/29/2020	39.3	2	ND (0.48)	ND (0.58)	ND (0.63)	ND (1.6) <sup>a</sup>	ND (6.9)	ND (0.95)	ND (0.55)	ND (0.56)	ND (0.73)	ND (0.50)	ND (0.76)	ND (0.78)	ND (1.2)	ND (0.56)	ND (0.48)	1	ND (0.54)	3.8	ND (1.4)	ND (0.57)	ND (0.60)	ND (0.59)	ND (0.51)	ND (0.54)	ND (0.51)
FA-4	1/29/2020	19.8	ND (0.43)	ND (0.48)	ND (0.58)	ND (0.63)	ND (1.6) <sup>b</sup>	ND (6.9)	ND (0.95)	ND (0.55)	1.1	ND (0.73)	ND (0.50)	ND (0.76)	ND (0.78)	ND (1.2)	ND (0.56)	ND (0.48)	ND (0.53)	ND (0.54)	ND (0.51)	ND (1.4)	ND (0.57)	ND (0.60)	ND (0.59)	ND (0.51)	ND (0.54)	ND (0.51)
FA-5	1/29/2020	6.1 J	1.2	ND (0.48)	ND (0.58)	ND (0.63)	ND (1.6) <sup>a</sup>	ND (6.9)	ND (0.95)	ND (0.55)	ND (0.56)	ND (0.73)	ND (0.50)	ND (0.76)	ND (0.78)	ND (1.2)	ND (0.56)	ND (0.48)	ND (0.53)	ND (0.54)	ND (0.51)	ND (1.4)	ND (0.57)	ND (0.60)	ND (0.59)	ND (0.51)	ND (0.54)	ND (0.51)
FA-6	1/29/2020	ND (6.0)	ND (0.43)	ND (0.48)	ND (0.58)	ND (0.63)	ND (1.6) <sup>b</sup>	ND (6.9)	ND (0.95)	ND (0.55)	ND (0.56)	ND (0.73)	ND (0.50)	ND (0.76)	ND (0.78)	ND (1.2)	ND (0.56)	ND (0.48)	ND (0.53)	ND (0.54)	ND (0.51)	ND (1.4)	ND (0.57)	ND (0.60)	ND (0.59)	ND (0.51)	ND (0.54)	ND (0.51)
FA-7	1/29/2020	ND (6.0)	ND (0.43)	ND (0.48)	ND (0.58)	ND (0.63)	ND (1.6) <sup>a</sup>	ND (6.9)	ND (0.95)	ND (0.55)	ND (0.56)	ND (0.73)	ND (0.50)	ND (0.76)	ND (0.78)	ND (1.2)	ND (0.56)	ND (0.48)	ND (0.53)	ND (0.54)	ND (0.51)	ND (1.4)	ND (0.57)	ND (0.60)	ND (0.59)	ND (0.51)	ND (0.54)	ND (0.51)

ND-Not Detected NA- Not Analyzed J- Estimated Value -- Standard Not Available All results in ug/l, unless otherwise noted NJDEP = New Jersey Department of Environmental Protection GWQS- Groundwater Quality Standards
Indicates concentration is above applicable GWQS

# Table 9 Hess Corporation - Port Reading Refinery 750 Cliff Road, Port Reading, Middlesex County, New Jersey AOC 103 Groundwater Analytical Results

														Vo	latile Organic	5												
Sample ID:	Date:	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Freon 113	2-Hexanone	Isopropylbenzene	Methyl Acetate	Methylcyclohexane	Methyl Tert Butyl Ether	4-Methyl-2-pentanone(MIBK)	Methylene chloride	Styrene	Tert Butyl Alcohol	1,1,2,2-Tetrachloroethane	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl chloride	m,p-Xylene	o-Xylene	Xylene (total)	Total TIC, Volatile
NJ Gro	undwater	-	-	700	20000	40	700	7000	•	70	•	3	100	100	1	1	600	-	9	30	3	1	2000	1	-	-	1000	500
FA-1	1/29/2020	ND (0.47)	ND (0.43)	ND (0.60)	ND (1.9)	ND (2.0)	ND (0.65)	ND (0.80)	ND (0.60)	ND (0.51)	ND (1.9)	ND (1.0)	ND (0.70)	ND (5.8)	ND (0.65)	ND (0.90)	ND (0.53)	ND (0.50)	ND (0.50)	ND (0.54)	ND (0.53)	ND (0.53)	ND (0.84)	ND (0.79)	ND (0.78)	ND (0.59)	ND (0.59)	0
FA-2	1/29/2020	ND (0.47)	ND (0.43)	ND (0.60)	ND (1.9)	ND (2.0)	ND (0.65)	ND (0.80)	ND (0.60)	ND (0.51)	ND (1.9)	ND (1.0)	ND (0.70)	ND (5.8)	ND (0.65)	ND (0.90)	ND (0.53)	ND (0.50)	ND (0.50)	ND (0.54)	ND (0.53)	ND (0.53)	ND (0.84)	ND (0.79)	ND (0.78)	ND (0.59)	ND (0.59)	0
FA-3	1/29/2020	ND (0.47)	ND (0.43)	ND (0.60)	ND (1.9)	ND (2.0)	2.9	ND (0.80)	0.79 J	ND (0.51)	ND (1.9)	ND (1.0)	ND (0.70)	ND (5.8)	ND (0.65)	ND (0.90)	ND (0.53)	ND (0.50)	ND (0.50)	ND (0.54)	ND (0.53)	ND (0.53)	ND (0.84)	ND (0.79)	1.4	1.9	3.3	323.2 J
FA-4	1/29/2020	ND (0.47)	ND (0.43)	ND (0.60)	ND (1.9)	ND (2.0)	ND (0.65)	ND (0.80)	ND (0.60)	ND (0.51)	ND (1.9)	ND (1.0)	ND (0.70)	ND (5.8)	ND (0.65)	ND (0.90)	ND (0.53)	ND (0.50)	ND (0.50)	ND (0.54)	ND (0.53)	ND (0.53)	ND (0.84)	ND (0.79)	ND (0.78)	1.4	1.4	19 J
FA-5	1/29/2020	ND (0.47)	ND (0.43)	1.1	ND (1.9)	ND (2.0)	2.2	ND (0.80)	1.9 J	ND (0.51)	ND (1.9)	ND (1.0)	ND (0.70)	ND (5.8)	ND (0.65)	ND (0.90)	0.61 J	ND (0.50)	ND (0.50)	ND (0.54)	ND (0.53)	ND (0.53)	ND (0.84)	ND (0.79)	5.2	5.5	10.7	101.1 J
FA-6	1/29/2020	ND (0.47)	ND (0.43)	ND (0.60)	ND (1.9)	ND (2.0)	ND (0.65)	ND (0.80)	ND (0.60)	ND (0.51)	ND (1.9)	ND (1.0)	ND (0.70)	ND (5.8)	ND (0.65)	ND (0.90)	ND (0.53)	ND (0.50)	ND (0.50)	ND (0.54)	ND (0.53)	ND (0.53)	ND (0.84)	ND (0.79)	ND (0.78)	ND (0.59)	ND (0.59)	0
FA-7	1/29/2020	ND (0.47)	ND (0.43)	ND (0.60)	ND (1.9)	ND (2.0)	ND (0.65)	ND (0.80)	ND (0.60)	ND (0.51)	ND (1.9)	ND (1.0)	ND (0.70)	ND (5.8)	ND (0.65)	ND (0.90)	ND (0.53)	ND (0.50)	ND (0.50)	ND (0.54)	ND (0.53)	ND (0.53)	ND (0.84)	ND (0.79)	ND (0.78)	ND (0.59)	ND (0.59)	0

ND-Not Detected NA- Not Analyzed J- Estimated Value -- Standard Not Available All results in ug/l, unless otherwise noted NJDEP = New Jersey Department of Environmental Protection GWQS- Groundwater Quality Standards
Indicates concentration is above applicable GWQS

Table 9
Hess Corporation - Port Reading Refinery
750 Cliff Road, Port Reading, Middlesex County, New Jersey
AOC 103 Groundwater Analytical Results

																Base Neutrals														
Sample ID:	Date:	Perfluorohexanoic acid	Perfluoroheptanoic acid	Perfluorooctanoic acid	Perfluorononanoic acid	Perfluorodecanoic acid	Perfluoroundecanoic acid	Perfluorododecanoic acid	Perfluorotridecanoic acid	Perfluorotetradecanoic acid	Perfluorobutanes ulfonic acid	Perfluorohexanesulfonic acid	Perfluorooctanes ulfonic acid	MeFOSAA	EtFOSAA	2-Chlorophenol	4-Chloro-3-methyl phenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2-Methylphenol	3&4-Methylphenol	2-Nitrophenol	4-Nitrophenol	Phenol	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	Acenaphthene	Acenaphthylene
NJ Gro	undwater	-	-	0.01	0.013	-	-	-	-	-	-	-	0.01	-	-	40	100	20	100	40	50	50	-	-	2000	200	700	20	400	100
FA-1	1/29/2020	3.79	1.82	0.89	ND (0.0086)	ND (0.0086)	ND (0.0086)	ND (0.013)	ND (0.0086)	ND (0.0086)	2.76	58.4	4.45	ND (0.034)	ND (0.034)	ND (0.78)	ND (0.85)	ND (1.2)	ND (2.3) °	ND (1.5)	ND (0.85)	ND (0.84)	ND (0.91)	ND (1.1)	ND (0.37)	ND (1.4)	ND (1.3)	ND (0.88)	ND (0.18)	ND (0.13)
FA-2	1/29/2020	0.0095	0.0049	0.004	0.004	0.0029 J	ND (0.00086)	ND (0.0013)	ND (0.00086)	ND (0.00086)	0.0047	0.0414	0.17	ND (0.0034)	ND (0.0034)	ND (0.82)	ND (0.89)	ND (1.3)	ND (2.4) °	ND (1.6)	ND (0.89)	ND (0.88)	ND (0.96)	ND (1.2)	ND (0.39)	ND (1.5)	ND (1.3)	ND (0.92)	ND (0.19)	ND (0.14)
FA-3	1/29/2020	0.0445	0.0091	0.02	0.006	0.0044	ND (0.0043)	ND (0.0065)	ND (0.0043)	ND (0.0043)	0.025	0.253	0.87	ND (0.0034)	ND (0.0034)	ND (0.78)	ND (0.85)	ND (1.2)	ND (2.3) °	ND (1.5)	ND (0.85)	ND (0.84) °	ND (0.91)	ND (1.1)	ND (0.37)	ND (1.4)	ND (1.3)	ND (0.88)	ND (0.18)	ND (0.13)
FA-4	1/29/2020	0.731	0.1	0.22	ND (0.0086)	ND (0.0086)	ND (0.0086)	ND (0.13)	ND (0.0086)	ND (0.0086)	0.437	5.73	33.8	ND (0.034)	ND (0.034)	ND (0.82)	ND (0.89)	ND (1.3)	ND (2.4) °	ND (1.6)	ND (0.89)	ND (0.88) °	ND (0.96)	ND (1.2)	ND (0.39)	ND (1.5)	ND (1.3)	ND (0.92)	1.4	ND (0.14)
FA-5	1/29/2020	0.0165	0.0088	0.01	0.027	0.0036	ND (0.0086)	ND (0.013)	ND (0.00086)	ND (0.00086)	0.0083	0.115	0.42	ND (0.034)	ND (0.034)	ND (0.79)	ND (0.86)	ND (1.2)	ND (2.3) °	ND (1.5)	ND (0.85)	ND (0.85) °	ND (0.92)	ND (1.1)	ND (0.38)	ND (1.4)	ND (1.3)	ND (0.89)	1.6	ND (0.13)
FA-6	1/29/2020	1.91	0.224	0.28	ND (0.086)	ND (0.0086)	0.176	ND (0.013)	ND (0.0086)	ND (0.0086)	1.02	7.29	61.7	ND (0.034)	ND (0.034)	ND (0.80)	ND (0.87)	ND (1.2)	ND (2.4) °	ND (1.5)	ND (0.86)	ND (0.85) °	ND (0.93)	ND (1.1)	ND (0.38)	ND (1.4)	ND (1.3)	ND (0.90)	ND (0.19)	ND (0.13)
FA-7	1/29/2020	0.112	0.0111	0.02	0.004	0.0029 J	0.0061	ND (0.0013)	ND (0.00086)	ND (0.00086)	0.088	0.79	1.96	ND (0.0034)	ND (0.0034)	ND (0.78)	ND (0.85)	ND (1.2)	ND (2.3) °	ND (1.5)	ND (0.85)	ND (0.84) °	ND (0.91)	ND (1.1)	ND (0.37)	ND (1.4)	ND (1.3)	ND (0.88)	ND (0.18)	ND (0.13)

ND-Not Detected

-- Standard Not Available

NJDEP = New Jersey Department of Environmental Protection

NA- Not Analyzed

All results in ug/l, unless otherwise noted

GWQS- Groundwater Quality Standards

J- Estimated Value

Indicates concentration is above applicable GWQS

Table 9
Hess Corporation - Port Reading Refinery
750 Cliff Road, Port Reading, Middlesex County, New Jersey
AOC 103 Groundwater Analytical Results

																Base Neutrals														
Sample ID:	Date Sampled	Acetophenone	Anthracene	Atrazine	Benzaldehyde	Benzo(g,ħ,i)perylene	4-Bromophenyl phenyl ether	Butyl benzyl phthalate	1,1'-Biphenyl	2-Chloronaphthalene	4-Chloroaniline	Carbazole	Caprolactam	Chrysene	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	2,2Oxybis (1-chloropropane)	4-Chlorophenyl phenyl ether	2,4-Dinitrotoluene	2,6-Dinitrotoluene	3,3'-Dichlorobenzidine	Dibenzofuran	Di-n-butyl phthalate	Di-n-octyl phthalate	Diethyl phthalate	Dimethyl phthalate	bis(2-Ethylhexyl)phthalate	Fluoranthene	Fluorene	Hexachlorocyclopentadiene
NJ Gro	ndwater	700	2000	3	-	100	-	100	400	600	30		4000	5	-	7	300	-	-	-	30	-	700	100	6000	100	3	300	300	40
FA-1	1/29/2020	0.26 J	ND (0.20)	ND (0.43)	ND (0.28)	ND (0.32)	ND (0.38)	ND (0.44)	ND (0.20)	ND (0.22)	ND (0.32)	ND (0.22)	ND (0.62) °	ND (0.17)	ND (0.26)	ND (0.24)	ND (0.38)	ND (0.35)	ND (0.53)	ND (0.45)	ND (0.48)	ND (0.21)	ND (0.47)	ND (0.22)	ND (0.25)	ND (0.21)	ND (1.6) °	ND (0.16)	ND (0.16)	ND (2.6)
FA-2	1/29/2020	ND (0.21)	ND (0.21)	ND (0.45)	ND (0.29)	ND (0.34)	ND (0.40)	ND (0.46)	ND (0.21)	ND (0.24)	ND (0.34)	ND (0.23)	ND (0.65) °	ND (0.18)	ND (0.28)	ND (0.25)	ND (0.40)	ND (0.37)	ND (0.55)	ND (0.48)	ND (0.51)	ND (0.22)	ND (0.50)	ND (0.23)	ND (0.26)	ND (0.22)	ND (1.7) °	ND (0.17)	ND (0.17)	ND (2.8)
FA-3	1/29/2020	5.4	1.3	ND (0.43) °	ND (0.28)	ND (0.32)	ND (0.38)	ND (0.44)	ND (0.20)	ND (0.22)	ND (0.32)	0.26 J	ND (0.62) °	0.32 J	ND (0.26)	ND (0.24)	ND (0.38)	ND (0.35)	ND (0.53) °	ND (0.45) °	ND (0.48)	ND (0.21)	ND (0.47) °	ND (0.22)	ND (0.25)	ND (0.21)	ND (1.6) °	0.38 J	ND (0.16)	ND (2.6)
FA-4	1/29/2020	ND (0.21)	ND (0.21)	ND (0.45) °	ND (0.29)	ND (0.34)	ND (0.40)	ND (0.46)	ND (0.21)	ND (0.24)	ND (0.34)	ND (0.23)	ND (0.65) °	ND (0.18)	ND (0.28)	ND (0.25)	ND (0.40)	ND (0.37)	ND (0.55) °	ND (0.48) °	ND (0.51)	0.85 J	ND (0.50) °	ND (0.23)	ND (0.26)	ND (0.22)	ND (1.7) °	0.31 J	2.9	ND (2.8)
FA-5	1/29/2020	ND (0.20)	ND (0.20)	ND (0.43) °	ND (0.28)	ND (0.33)	ND (0.39)	ND (0.44)	ND (0.20)	ND (0.23)	ND (0.33)	ND (0.22)	ND (0.62) °	ND (0.17)	ND (0.27)	ND (0.24)	ND (0.39)	ND (0.35)	ND (0.53) °	ND (0.46) °	ND (0.49)	1.1 J	ND (0.48) °	ND (0.22)	ND (0.25)	ND (0.21)	ND (1.6) °	ND (0.16)	2.6	ND (2.7)
FA-6	1/29/2020	ND (0.20)	ND (0.20)	ND (0.43) °	ND (0.28)	ND (0.33)	ND (0.39)	ND (0.44)	ND (0.21)	ND (0.23)	ND (0.33)	ND (0.22)	ND (0.63) °	ND (0.17)	ND (0.27)	ND (0.24)	ND (0.39)	ND (0.36)	ND (0.54) °	ND (0.46) °	ND (0.49)	ND (0.21)	ND (0.48) °	ND (0.23)	ND (0.25)	ND (0.21)	ND (1.6) °	ND (0.17)	0.22 J	ND (2.7)
FA-7	1/29/2020	ND (0.20)	ND (0.20)	ND (0.43) °	ND (0.28)	ND (0.32)	ND (0.38)	ND (0.44)	ND (0.20)	ND (0.22)	ND (0.32)	ND (0.22)	ND (0.62) °	ND (0.17)	ND (0.26)	ND (0.24)	ND (0.38)	ND (0.35)	ND (0.53) °	ND (0.45) °	ND (0.48)	ND (0.21)	ND (0.47) °	ND (0.22)	ND (0.25)	ND (0.21)	ND (1.6) °	ND (0.16)	ND (0.16)	ND (2.6)

ND-Not Detected NA- Not Analyzed J- Estimated Value -- Standard Not Available All results in ug/l, unless otherwise noted NJDEP = New Jersey Department of Environmental Protection GWQS- Groundwater Quality Standards Indicates concentration is above applicable GWQS

#### Table 9 Hess Corporation - Port Reading Refinery 750 Cliff Road, Port Reading, Middlesex County, New Jersey AOC 103 Groundwater Analytical Results

															Base N	leutrals													
Sample II	: Date Sampled	Hexachloroethane	Isophorone	2-Methylnaphthalene	2-Nitroaniline	3-Nitroaniline	4-Nitroaniline	Naphthalene	Nitrobenzene	N-Nitroso-di-n-propylamine	N-Nitros odiphenylamine	Phenanthrene	Pyrene	1,2,4,5-Tetrachlorobenze ne	4,6-Dinitro-o-cresol	Pentachlorophenol	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Dibenzo(a,h)anthracene	Hexachlorobenzene	Hexachlorobutadiene	Indeno(1,2,3-cd)pyrene	1,4-Dioxane	Total TIC, Semi-Volatile	Chloride	Solids, Total Dissolved	Total Organic Carbon
NJ G	oundwater	7	40	30	-	-	-	300	6	10	10	-	200	-	0.7	0.3	0.1	0.1	0.2	0.5	0.3	0.02	1	0.2	0.4	500	250	500	-
FA-1	1/29/2020	ND (0.37)	ND (0.26)	ND (0.20)	ND (0.26)	ND (0.37)	ND (0.42)	ND (0.22)	ND (0.61)	ND (0.46)	ND (0.21)	ND (0.17)	ND (0.21)	ND (0.35)	ND (0.15)	ND (0.12)	ND (0.022)	ND (0.032)	ND (0.041)	ND (0.048)	ND (0.048)	ND (0.011)	ND (0.048)	ND (0.048)	ND (0.048)	0.0	5.1	129	14.2
FA-2	1/29/2020	ND (0.39)	ND (0.28)	ND (0.21)	ND (0.28)	ND (0.39)	ND (0.44)	ND (0.23)	ND (0.64)	ND (0.48)	ND (0.22)	ND (0.18)	ND (0.22)	ND (0.37)	ND (0.15)	ND (0.13)	ND (0.023)	ND (0.033)	0.1	ND (0.050)	ND (0.050)	ND (0.011)	ND (0.050)	ND (0.050)	ND (0.050)	0.0	3.4	118	2.8
FA-3	1/29/2020	ND (0.37)	ND (0.26) °	ND (0.20)	ND (0.26)	ND (0.37) °	ND (0.42)	ND (0.22)	ND (0.61)	ND (0.46) °	ND (0.21)	0.64 J	0.31 J	ND (0.35)	ND (0.15)	ND (0.12)	0.2	0.1	0.1	0.0506 J	ND (0.048)	ND (0.011)	ND (0.048)	0.0512 J	ND (0.048)	1422.8 J	8.1	130	8.5
FA-4	1/29/2020	ND (0.39)	ND (0.28) °	0.93 J	ND (0.28)	ND (0.39) °	ND (0.44)	ND (0.23)	ND (0.64)	ND (0.48) °	ND (0.22)	2	ND (0.22)	ND (0.37)	ND (0.15)	ND (0.13)	0.1	0.1	0.1	ND (0.050)	ND (0.050)	ND (0.011)	ND (0.050)	ND (0.050)	ND (0.050)	240.6 J	222	624	14.9
FA-5	1/29/2020	ND (0.37)	ND (0.27) <sup>c</sup>	2.5	ND (0.27)	ND (0.37) <sup>c</sup>	ND (0.42)	2.9	ND (0.62)	ND (0.46) °	ND (0.21)	1.2	ND (0.21)	ND (0.36)	ND (0.15)	ND (0.12)	ND (0.022)	ND (0.032)	ND (0.042)	ND (0.048)	ND (0.048)	ND (0.011)	ND (0.048)	ND (0.048)	ND (0.048)	1345.3 J	5.4	151	7.6
FA-6	1/29/2020	ND (0.38)	ND (0.27) °	ND (0.20)	ND (0.27)	ND (0.38) °	ND (0.43)	ND (0.23)	ND (0.62)	ND (0.47) °	ND (0.22)	ND (0.17)	ND (0.21)	ND (0.36)	ND (0.15)	ND (0.13)	ND (0.022)	ND (0.032)	ND (0.042)	ND (0.049)	ND (0.049)	ND (0.011)	ND (0.049)	ND (0.049)	ND (0.049)	332.6 J	6.8	201	14.7
FA-7	1/29/2020	ND (0.37)	ND (0.26) °	ND (0.20)	ND (0.26)	ND (0.37) °	ND (0.42)	ND (0.22)	ND (0.61)	ND (0.46) °	ND (0.21)	ND (0.17)	ND (0.21)	ND (0.35)	ND (0.15)	ND (0.13)	ND (0.022)	ND (0.032)	ND (0.042)	ND (0.049)	ND (0.049)	0.0167	ND (0.049)	ND (0.049)	ND (0.049)	0.0	5.1	166	2.8

ND-Not Detected NA- Not Analyzed J- Estimated Value

-- Standard Not Available All results in ug/l, unless otherwise noted

NJDEP = New Jersey Department of Environmental Protection GWQS- Groundwater Quality Standards Indicates concentration is above applicable GWQS

### Table 9 Hess Corporation - Port Reading Refinery 750 Cliff Road, Port Reading, Middlesex County, New Jersey AOC 103 Groundwater Analytical Results

		1																																																
																										Volatile Orga	nics																							
Client Sample ID:		Acetone	Berzene	Bromochlorome thane	Bromodichloromethane Bromoform	Bromomethane	2-Butanone (MEK)	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Cyclohexane	1,2-Dibromo-3- chloropropane	Dibromochioromethane		1,3-Dichloroberzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans -1,2-Dichloroethene	1,2-Dichloropropane	cis-1,3-Dichloropropene	trans-1,3-	Ethylbenzene	Freon 113	2-Hexanone	Isopropy Ibenzene	Methylcyclohexane	Methyl Tert Butyl Ether	4-Methyl-2- pentanone (MIBK)	Methylene chloride	Styrene	Tert Butyl Alcohol	1,1,2,2-Tetrachioroethane	Tetrachloroethene	Toluene Toluene 1.23-Trichlorobenzene	1, z,3-memonomo.	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl chloride	m,p-Xylene	o -Xylene	Ayres (town)
NJ Grou Cri	ndwater eria	6000	1		1 4	10	300	700	1	50	5	70	-	-	0.02	1 0.0	03 6	00 600	75	1000	50	2	1	70	100	1	-	- 7	00 20	0000	40 7	700 70	- 00	70	-	3	100	100	1	1	600 -	9	30	3	1	2000	1	-	- 10	00 500
FA-1	12/2/2020	ND (6.0)	ND (0.43)	ND (0.48)	ND (0.45) ND (0	1.63) ND (1	I.6) ° ND (6.5	9) ND (0.46	ND (0.55)	ND (0.56)	ND (0.73)	ND (0.50)	ND (0.76)	ND (0.78)	ND (1.2)	ND (0.56) ND (	0.48) ND	(0.53) ND (0.5	4) ND (0.5	51) ND (1.4) °	ND (0.57)	ND (0.60)	ND (0.59)	ND (0.51)	ND (0.54)	ND (0.51) ND	(0.47) NE	D (0.43) ND (	(0.60) ND	) (1.9) N	ND (2.0) ND	(0.65) ND (	0.80) ND (0	.60) ND (0	.51) ND (1.9	) ND (1.0	ND (0.49)	ND (5.8)	ND (0.65) ND	(0.90) NE	(0.53) ND (0	0.50) ND (0.	.50) ° ND (0.54	i) ND (0.53	i) ND (0.53)	) ND (0.40)	ND (0.79)	ND (0.78)	ND (0.59) ND (	(0.59) 6.3 J
FA-2	12/2/2020	ND (6.0)	ND (0.43)	ND (0.48)	ND (0.45) ND (0	0.63) ND (1	I.6) ° ND (6.9	9) ND (0.46	ND (0.55)	ND (0.56)	ND (0.73)	ND (0.50)	ND (0.76)	ND (0.78)	ND (1.2)	ND (0.56) ND (	0.48) ND	(0.53) ND (0.5	4) ND (0.5	51) ND (1.4) °	ND (0.57)	ND (0.60)	ND (0.59)	ND (0.51)	ND (0.54)	ND (0.51) ND	(0.47) NE	D (0.43) ND (	(0.60) ND	) (1.9) N	ND (2.0) ND	(0.65) ND (	0.80) ND (0	.60) ND (0	.51) ND (1.9	) ND (1.0	ND (0.49)	ND (5.8)	ND (0.65) ND	(0.90) NE	(0.53) ND (0	0.50) ND (0.	.50) ° ND (0.54	i) ND (0.53	i) ND (0.53)	) ND (0.40)	ND (0.79)	ND (0.78)	ND (0.59) ND (	0.59) 0
FA-3	12/4/2020	ND (6.0) <sup>a</sup>	0.88	ND (0.48)	ND (0.45) ND (0	0.63) ND (	1.6) ND (6.5	9) ND (0.46	ND (0.55)	ND (0.56)	ND (0.73)	ND (0.50)	ND (0.76)	ND (0.78)	ND (1.2)	ND (0.56) ND (	0.48) 1	.4 ND (0.5	4.7	ND (1.4)	ND (0.57)	ND (0.60)	ND (0.59)	ND (0.51)	ND (0.54)	ND (0.51) ND	(0.47) NE	D (0.43)	.2 ND	) (1.9) N	4D (2.0) 0.3	70 J ND (	0.80) ND (0	.60) ND (0	51) ND (1.9	) ND (1.0	ND (0.49)	ND (5.8)	ND (0.65) ND	(0.90) NE	0 (0.53) ND (0	0.50) 1.5	2 ND (0.54	i) ND (0.53	i) ND (0.53)	) ND (0.40)	ND (0.79)	3.5	1.2 4	i.7 61.5 J
FA-4	12/2/2020	ND (6.0)	ND (0.43)	ND (0.48)	ND (0.45) ND (0	1.63) ND (1	I.6) ° ND (6.9	9) ND (0.46	ND (0.55)	2	ND (0.73)	ND (0.50)	ND (0.76)	ND (0.78)	ND (1.2)	ND (0.56) ND (	0.48) ND	(0.53) ND (0.5	4) ND (0.5	51) ND (1.4) °	ND (0.57)	ND (0.60)	ND (0.59)	ND (0.51)	ND (0.54)	ND (0.51) ND	(0.47) NE	D (0.43) ND (	(0.60) ND	) (1.9) N	ND (2.0) ND	(0.65) ND (	0.80) ND (0	.60) ND (0.	.51) ND (1.9	) ND (1.0	ND (0.49)	ND (5.8)	ND (0.65) ND	(0.90) NE	(0.53) ND (0	0.50) ND (0.	.50)° ND (0.54	I) ND (0.53	I) ND (0.53)	) ND (0.40)	ND (0.79)	ND (0.78)	1.9 1	1.9 30 J
FA-5	12/2/2020	ND (6.0)	1.2	ND (0.48)	ND (0.45) ND (0	0.63) ND (1	1.6) ° ND (6.5	9) ND (0.46	ND (0.55)	ND (0.56)	ND (0.73)	ND (0.50)	ND (0.76)	2.1 J	ND (1.2)	ND (0.56) ND (	0.48) ND	(0.53) ND (0.5	4) ND (0.5	51) ND (1.4) °	ND (0.57)	ND (0.60)	ND (0.59)	ND (0.51)	ND (0.54)	ND (0.51) ND	(0.47) NE	D (0.43) ND (	(0.60) ND	) (1.9) N	ND (2.0)	1.2 ND (	0.80) 1.6	J ND (0.	51) ND (1.9	) ND (1.0	ND (0.49)	ND (5.8)	ND (0.65) ND	(0.90) NE	(0.53) ND (0	0.50) ND (0.	.50)° ND (0.54	4) ND (0.53	J) ND (0.53)	) ND (0.40)	ND (0.79)	2.9	2.9 5	5.8 19.4 J
FA-6	12/9/2020	ND (6.0) <sup>a</sup>	ND (0.43)	ND (0.48)	ND (0.45) ND (0	0.63) ND (1	I.6) a ND (6.5	9) ND (0.46	ND (0.55)	ND (0.56)	ND (0.73)	ND (0.50)	ND (0.76)	ND (0.78)	ND (1.2)	ND (0.56) ND (	0.48) ND	(0.53) ND (0.5	4) ND (0.5	51) ND (1.4) °	ND (0.57)	ND (0.60)	ND (0.59) N	ND (0.51)	ND (0.54)	ND (0.51) ND	(0.47) NE	D (0.43) ND (	(0.60) ND	) (1.9) N	ND (2.0) ND	(0.65) ND (	0.80) ND (0	.60) ND (0.	.51) ND (1.9)	° ND (1.0	ND (0.49)	ND (5.8)	ND (0.65) ND	(0.90) NE	(0.53) ND (0	0.50) ND (0	.50) ND (0.54	1) ND (0.53	J) ND (0.53)	) ND (0.40) °	ND (0.79) ° !	ND (0.78)	ND (0.59) ND (	0.59) 0
FA-7	12/11/2020	ND (6.0)	ND (0.43)	ND (0.48)	ND (0.45) ND (0	0.63) ND (	1.6) ND (6.5	9) ND (0.46	ND (0.55)	ND (0.56)	ND (0.73)	ND (0.50)	ND (0.76)	ND (0.78)	ND (1.2)	ND (0.56) ND (	0.48) ND	(0.53) ND (0.5	4) ND (0.5	51) ND (1.4)	ND (0.57)	ND (0.60)	ND (0.59) N	ND (0.51)	ND (0.54)	ND (0.51) ND	(0.47) NE	D (0.43) ND (	(0.60) ND	) (1.9) N	ND (2.0) ND	(0.65) ND (	0.80) ND (0	.60) ND (0.	.51) ND (1.9	) ND (1.0	ND (0.49)	ND (5.8)	ND (0.65) ND	(0.90) NE	(0.53) ND (0	0.50) ND (0	.50) ND (0.54	1) ND (0.53	J) ND (0.53)	ND (0.40)	ND (0.79)	ND (0.78)	ND (0.59) ND (	0.59) 0

ND-Not Detected NA- Not Analyzed J- Estimated Value

- Standard Not Available
All results in ug/l, unless otherwise noted

NJDEP = New Jersey Department of Environmental Protection
GWQS- Groundwater Quality Standards
Indicates concentration is above applicable GWQS

### Table 9 Hess Corporation - Port Reading Refinery 750 Cliff Road, Port Reading, Middlesex County, New Jersey AOC 103 Groundwater Analytical Results

																		В	ase Neutra	ıls																
Client Sample ID	Date Sampled:	2-Chlorophenol	4-Chloro-3-methyl phenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2-Methylphenol	3&4-Methylphenol	2-Nitrophenol	4-Nitrophenol	Phenol	2,3,4,6- Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	Acenaphthene	Acenaphthylene	Acetophenone	Anthracene	Atrazine	Benzaldehyde	Benzo(g,h,i)perylene	4-Bromophenyl phenyl ether	Butyl benzyl phthalate	1,1'-Biphenyl	2-Chloronaphthalene	4-Chloroaniline	Carbazole	Caprolactam	Chrysene	bis(2- Chloroethoxy)methane	bis(2-Chloroethyl)ether	2,2'-Oxybis(1- chloropropane)	4-Chlorophenyl phenyl ether	2,4-Dinitrotoluene	2,6-Dinitrotoluene	3,3'-Dichlorobenzidine
	indwater teria	40	100	20	100	40	50	50	-	•	2000	200	700	20	400	100	700	2000	3	-	100	-	100	400	600	30	-	4000	5	-	7	300	-	-	-	30
FA-1	12/2/2020	ND (0.82)	ND (0.89)	ND (1.3)	ND (2.4)	ND (1.6)	ND (0.89)	ND (0.88)	ND (0.96)	ND (1.2)	ND (0.39)	ND (1.5)	ND (1.3)	ND (0.92) NE	O (0.19) NI	D (0.14)	ND (0.21)	ND (0.21)	ND (0.45)	ND (0.29)	ND (0.34)	ND (0.40)	ND (0.46) <sup>c</sup>	ND (0.21)	ND (0.24)	ND (0.34)	ND (0.23)	ND (0.65)	ND (0.18)	ND (0.28)	ND (0.25)	ND (0.40)	ND (0.37)	ND (0.55)	ND (0.48)	ND (0.51)
FA-2	12/2/2020	ND (0.82)	ND (0.89)	ND (1.3)	ND (2.4)	ND (1.6)	ND (0.89)	ND (0.88)	ND (0.96)	ND (1.2)	ND (0.39)	ND (1.5)	ND (1.3)	ND (0.92) ND	O (0.19) NI	D (0.14)	ND (0.21)	ND (0.21)	ND (0.45)	ND (0.29)	ND (0.34)	ND (0.40)	ND (0.46) °	ND (0.21)	ND (0.24)	ND (0.34)	ND (0.23)	ND (0.65)	ND (0.18)	ND (0.28)	ND (0.25)	ND (0.40)	ND (0.37)	ND (0.55)	ND (0.48)	ND (0.51)
FA-3	12/4/2020	ND (0.82)	ND (0.89)	ND (1.3)	ND (2.4)	ND (1.6)	ND (0.89)	ND (0.88)	ND (0.96)	ND (1.2) °	ND (0.39)	ND (1.5)	ND (1.3)	ND (0.92) NE	O (0.19) NI	D (0.14)	0.82 J	ND (0.21)	ND (0.45)	ND (0.29)	ND (0.34)	ND (0.40)	ND (0.46)	ND (0.21)	ND (0.24)	ND (0.34)	ND (0.23)	ND (0.65) °	ND (0.18)	ND (0.28)	ND (0.25)	ND (0.40)	ND (0.37)	ND (0.55)	ND (0.48)	ND (0.51)
FA-4	12/2/2020	ND (0.82)	ND (0.89)	ND (1.3)	ND (2.4)	ND (1.6)	ND (0.89)	ND (0.88)	ND (0.96)	ND (1.2)	ND (0.39)	ND (1.5)	ND (1.3)	ND (0.92) ND	O (0.19) NI	D (0.14)	1.5 J	ND (0.21)	ND (0.45)	ND (0.29)	ND (0.34)	ND (0.40)	ND (0.46) <sup>c</sup>	ND (0.21)	ND (0.24)	ND (0.34)	ND (0.23)	ND (0.65)	ND (0.18)	ND (0.28)	ND (0.25)	ND (0.40)	ND (0.37)	ND (0.55)	ND (0.48)	ND (0.51)
FA-5	12/2/2020	ND (0.82)	ND (0.89)	ND (1.3)	ND (2.4)	ND (1.6)	ND (0.89)	ND (0.88)	ND (0.96)	ND (1.2)	ND (0.39)	ND (1.5)	ND (1.3)	ND (0.92)	1 NI	D (0.14)	ND (0.21)	ND (0.21)	ND (0.45)	ND (0.29)	ND (0.34)	ND (0.40)	ND (0.46) <sup>c</sup>	ND (0.21)	ND (0.24)	ND (0.34)	ND (0.23)	ND (0.65)	ND (0.18)	ND (0.28)	ND (0.25)	ND (0.40)	ND (0.37)	ND (0.55)	ND (0.48)	ND (0.51)
FA-6	12/9/2020	ND (0.82)	ND (0.89)	ND (1.3)	ND (2.4)	ND (1.6)	ND (0.89)	ND (0.88)	ND (0.96)	ND (1.2)	ND (0.39)	ND (1.5)	ND (1.3)	ND (0.92)	0.26 J NI	D (0.14)	ND (0.21)	ND (0.21)	ND (0.45)	ND (0.29)	ND (0.34)	ND (0.40)	ND (0.46)	ND (0.21)	ND (0.24)	ND (0.34)	ND (0.23)	ND (0.65)	ND (0.18)	ND (0.28)	ND (0.25)	ND (0.40)	ND (0.37)	ND (0.55)	ND (0.48)	ND (0.51)
FA-7	12/11/2020	ND (0.82)	ND (0.89)	ND (1.3)	ND (2.4)	ND (1.6)	ND (0.89)	ND (0.88)	ND (0.96)	ND (1.2)	ND (0.39)	ND (1.5)	ND (1.3)	ND (0.92) ND	O (0.19) NI	D (0.14)	ND (0.21)	ND (0.21)	ND (0.45)	ND (0.29)	ND (0.34)	ND (0.40)	ND (0.46) °	ND (0.21)	ND (0.24)	ND (0.34)	ND (0.23)	ND (0.65)	ND (0.18)	ND (0.28)	ND (0.25)	ND (0.40)	ND (0.37)	ND (0.55)	ND (0.48)	ND (0.51)

ND-Not Detected NA- Not Analyzed J- Estimated Value -- Standard Not Available All results in ug/l, unless otherwise noted NJDEP = New Jersey Department of Environmental Protection GWQS- Groundwater Quality Standards Indicates concentration is above applicable GWQS

### Table 9 Hess Corporation - Port Reading Refinery 750 Cliff Road, Port Reading, Middlesex County, New Jersey AOC 103 Groundwater Analytical Results

																		Base N	leutrals																
Client Sample ID:	Date Sampled:	Dibenzofuran	Di-n-butyl phthalate	Di-n-octyl phthalate	Diethyl phthalate	Dimethyl phthalate	bis(2-Ethylhexyl)phthalate	Fluoranthene	Fluorene	Hexachlorocyclopentadiene	Hexachloroethane	Isophorone	2-Methylnaphthalene	2-Nitroaniline	3-Ntroaniline	4-Ntroaniline	Naphthalene	Nitrobenzene	N-Nitroso-di-n-propylamine	N-Nitrosodiphenylamine	Phenanthrene	Pyrene	1,2,4,5-Tetrachlorobenzene	4,6-Dinitro-o-cresol	Pentachlorophenol	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Dibenzo(a,h)anthracene	Hexachlorobenzene	Hexachlorobutadiene	Indeno(1,2,3-cd)pyrene	1,4-Dioxane	Total TIC, Semi-Volatile
	undwater teria	-	700	100	6000	100	3	300	300	40	7	40	30	-	-	-	300	6	10	10	-	200	-	0.7	0.3	0.1	0.1	0.2	0.5	0.3	0.02	1	0.2	0.4	500
FA-1	12/2/2020	ND (0.22)	ND (0.50)	ND (0.23)	ND (0.26)	ND (0.22)	ND (1.7) °	ND (0.17)	ND (0.17)	ND (2.8)	ND (0.39)	ND (0.28)	ND (0.21)	ND (0.28)	ND (0.39)	ND (0.44)	ND (0.23)	ND (0.64)	ND (0.48)	ND (0.22)	ND (0.18)	ND (0.22)	ND (0.37)	ND (0.15)	ND (0.13) <sup>c</sup>	ND (0.023)	ND (0.033)	ND (0.043)	ND (0.050)	ND (0.050)	ND (0.011)	ND (0.050)	ND (0.050)	ND (0.050)	0
FA-2	12/2/2020	ND (0.22)	ND (0.50)	ND (0.23)	ND (0.26)	ND (0.22)	ND (1.7) °	ND (0.17)	ND (0.17)	ND (2.8)	ND (0.39)	ND (0.28)	ND (0.21)	ND (0.28)	ND (0.39)	ND (0.44)	ND (0.23)	ND (0.64)	ND (0.48)	ND (0.22)	ND (0.18)	ND (0.22)	ND (0.37)	ND (0.15)	ND (0.13) <sup>c</sup>	ND (0.023)	ND (0.033)	ND (0.043)	ND (0.050)	ND (0.050)	ND (0.011)	ND (0.050)	ND (0.050)	ND (0.050)	0
FA-3	12/4/2020	ND (0.22)	ND (0.50)	ND (0.23)	ND (0.26)	ND (0.22)	ND (1.7)	ND (0.17)	ND (0.17)	ND (2.8) i	ND (0.39)	ND (0.28)	ND (0.21)	ND (0.28) <sup>c</sup>	ND (0.39)	ND (0.44)	ND (0.23)	ND (0.64)	ND (0.48) °	ND (0.22)	ND (0.18)	ND (0.22)	ND (0.37)	ND (0.15) °	ND (0.13) <sup>c</sup>	ND (0.023)	ND (0.033)	ND (0.043)	ND (0.050)	ND (0.050)	0.0167	ND (0.050)	ND (0.050)	0.0832 JB	2953 J
FA-4	12/2/2020	ND (0.22)	ND (0.50)	ND (0.23)	ND (0.26)	ND (0.22)	ND (1.7) °	ND (0.17)	ND (0.17)	ND (2.8)	ND (0.39)	ND (0.28)	ND (0.21)	ND (0.28)	ND (0.39)	ND (0.44)	ND (0.23)	ND (0.64)	ND (0.48)	ND (0.22)	ND (0.18)	ND (0.22)	ND (0.37)	ND (0.15)	ND (0.13) <sup>c</sup>	ND (0.023)	ND (0.033)	ND (0.043)	ND (0.050)	ND (0.050)	ND (0.011)	ND (0.050)	ND (0.050)	ND (0.050)	1409.1 J
FA-5	12/2/2020	0.71 J	ND (0.50)	ND (0.23)	ND (0.26)	ND (0.22)	ND (1.7) °	ND (0.17)	2.8	ND (2.8)	ND (0.39)	ND (0.28)	ND (0.21)	ND (0.28)	ND (0.39)	ND (0.44)	ND (0.23)	ND (0.64)	ND (0.48)	ND (0.22)	1.2	ND (0.22)	ND (0.37)	ND (0.15)	ND (0.13) °	0.118	ND (0.033)	0.058	ND (0.050)	ND (0.050)	ND (0.011)	ND (0.050)	ND (0.050)	0.0636 J	167.1 J
FA-6	12/9/2020	ND (0.22)	ND (0.50)	ND (0.23)	ND (0.26)	ND (0.22)	ND (1.7)	ND (0.17)	0.27 J	ND (2.8) i	ND (0.39)	ND (0.28)	ND (0.21)	ND (0.28) °	ND (0.39)	ND (0.44)	ND (0.23)	ND (0.64)	ND (0.48) °	ND (0.22)	ND (0.18)	ND (0.22)	ND (0.37)	ND (0.15)	ND (0.13)	ND (0.023)	ND (0.033)	ND (0.043)	ND (0.050)	ND (0.050)	ND (0.011)	ND (0.050)	ND (0.050)	ND (0.050)	123.6 J
FA-7	12/11/2020	ND (0.22)	ND (0.50)	ND (0.23) °	ND (0.26)	ND (0.22)	ND (1.7) °	ND (0.17)	ND (0.17)	ND (2.8)	ND (0.39)	ND (0.28)	ND (0.21)	ND (0.28)	ND (0.39)	ND (0.44)	ND (0.23)	ND (0.64)	ND (0.48)	ND (0.22)	ND (0.18)	ND (0.22)	ND (0.37)	ND (0.15) °	ND (0.13)	ND (0.023)	ND (0.033)	ND (0.043)	ND (0.050)	ND (0.050)	ND (0.011)	ND (0.050)	ND (0.050)	ND (0.050)	0

ND-Not Detected NA- Not Analyzed J- Estimated Value

-- Standard Not Available All results in ug/l, unless otherwise noted

NJDEP = New Jersey Department of Environmental Protection GWQS- Groundwater Quality Standards Indicates concentration is above applicable GWQS

Table 9
Hess Corporation - Port Reading Refinery
750 Cliff Road, Port Reading, Middlesex County, New Jersey
AOC 103 Groundwater Analytical Results

													Metals	Analytis											
Client Sample ID:	Date Sampled:	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Nitrogen, Ammonia
NJ Ground	water Criteria	200	6	3	6000	1	4	-	70	100	1300	300	5	-	50	2	100	-	40	40	50000	2	-	2000	3000
FA-1	12/2/2020	1100	ND (6.0)	6.7	ND (200)	ND (1.0)	ND (3.0)	9400	ND (10)	ND (50)	26.9	4730	4.3	ND (5000)	136	ND (0.20)	17.8	ND (10000)	ND (10)	ND (10)	18500	ND (1.0)	ND (50)	136	ND (200)
FA-2	12/2/2020	789	ND (6.0)	3.7	ND (200)	ND (1.0)	ND (3.0)	17400	ND (10)	ND (50)	ND (10)	1440	ND (3.0)	ND (5000)	ND (15)	ND (0.20)	ND (10)	ND (10000)	ND (10)	ND (10)	19100	ND (1.0)	ND (50)	31.8	ND (200)
FA-3	12/4/2020	686	ND (6.0)	38.3	ND (200)	ND (1.0)	ND (3.0)	39100	ND (10)	ND (50)	26.1	47700	ND (3.0)	6210	298	ND (0.20)	ND (10)	ND (10000)	ND (10)	ND (10)	13500	ND (1.0)	ND (50)	91.3	1300
FA-4	12/2/2020	ND (200)	ND (6.0)	19.7	203	ND (1.0)	ND (3.0)	26400	ND (10)	ND (50)	ND (10)	27000	ND (3.0)	5250	221	ND (0.20)	ND (10)	ND (10000)	ND (10)	ND (10)	13900	ND (1.0)	ND (50)	ND (20)	1700
FA-5	12/2/2020	ND (200)	ND (6.0)	31.4	ND (200)	ND (1.0)	ND (3.0)	32100	ND (10)	ND (50)	19.1	41800	ND (3.0)	15900	223	ND (0.20)	ND (10)	16800	ND (10)	ND (10)	304000	ND (1.0)	ND (50)	35.8	6800
FA-6	12/9/2020	ND (200)	ND (6.0)	7.6	ND (200)	ND (1.0)	ND (3.0)	6710	ND (10)	ND (50)	ND (10)	9530	ND (3.0)	7960	182	ND (0.20)	ND (10)	21600	ND (10)	ND (10)	13600	ND (1.0)	ND (50)	ND (20)	860
FA-7	12/11/2020	1630	ND (6.0)	1.4	ND (200)	ND (1.0)	ND (3.0)	ND (5000)	ND (10)	ND (50)	ND (10)	2720	4.5	ND (5000)	ND (15)	ND (0.20)	ND (10)	ND (10000)	ND (10)	ND (10)	ND (10000)	ND (1.0)	ND (50)	ND (20)	ND (200)

ND-Not Detected NA- Not Analyzed J- Estimated Value -- Standard Not Available All results in ug/l, unless otherwise noted NJDEP = New Jersey Department of Environmental Protection GWQS- Groundwater Quality Standards

Indicates concentration is above applicable GWQS

# **APPENDIX A**

SOIL BORII																						_
Boring Nan		e 4V														F	n	Ж	CO	Tr	3	7
Permit No: N		5-4 V															Envi			Servic		
Client:	<b>V</b> /\(\)	Site Name:												Nor	thin	u.						_
Hess		Port Reading Refir	en/											628		_						
Site Address	e-	1 of Reading Rein	ету											Eas								$\dashv$
		Reading, New Jersey												563								
Drilling Com		teading, New Jersey												Met								_
_		ental Technologies (	SET)														ı/\/a	CUUI	m F:	kcav	atio	n
Start Date:		Complete Date: 10				,	Soil	Loc	ngei	r: Ma	att S	mith	1	Dire	,0(1	uoi	,, v a	ouui	/	tour	atio	÷
Boring Diam		Completion Depth:									: 6.0											
Soil Boring	Depth		nples																			
Lithology	(feet)	ID	Depth	PID							SC	)IL [	DES	CRII	PTIC	NC						
			·																			
	<u> </u>				0.0'-0	0.5'	RO	ADS	STC	NE												
	4			0.0	0.5'-2	2.0'	Bro	wn	Silty	y fin	e S/	ND	and	l Gra	avel							
	1 -			0.0																		
	2			0.0																		
				0.0	2.0'-8	8.0'	Bro	wn	fine	to r	ned	um	SAN	ND w	/ith (	Grav	vel					
	3			0.0																		
	3			0.0																		
	4			0.5																		
				0.6																		
	5			0.3																		
	Ů			0.0																		
	6	TL-SS-4V	(5.5-6.0)	0.0																		
				0.0																		
	7			0.0	Щ																	
				0.0		4	_															
	8 –			0.0	$\sqcup$																	
	$\rightarrow$																					

																							_
SOIL	L BORI	NG I	LOG														_		•	_	-	_	
Bori	ng Nar	me:	TL-SS-	-5V														N	/Ir	<b>O</b>	ir	a	٦
Perm	nit No:	NA																Envir	onme	ntai 5	Service	25	
Clien	nt:	_	_	Site Name:	_		_	_	=	_	_	_	_	_  r	Nor	rthing:	:	_	_	_	_	_	•
Hess	3			Port Reading Refin	iery									6	628	3217.3	38						
Site /	Addres	38:												I	Eas	sting:							
750 (	Cliff Ro	oad, [	Port Re	eading, New Jersey										į	564	1035.9	90						╝
Drilli	ng Con	npan	ıy:											I	Met	thod:					_		
Subs	surface	: Env	ironme	ental Technologies (S	SET)										Har	nd Au	ger	r/Va	cuun	n Ex	cav	atior	1
Start	t Date:	10/8/	/14	Complete Date: 10	)/8/14			So	il Log	gger	: Ma	tt S	mith		_			_		_	_	_	
Borir	ng Dian	neter	r: 2"	Completion Depth:	7.0'			De	epth to	o Wa	ater:	6.0	)'		_			_		_	_	_	
Soil	Boring	D	epth	Sam	nples							SC	ח ווי	FSC	`RI	PTIO	NI					_	
Lith	ology	(f	feet)	ID	Depth	PID	<u> </u>					00	/IL 0	LUC	/I \ i.	ГПС	•						
			0 —							_		_	_				_					_	
Ш		Ш			!	!	0.0'-0	0.5' AS	SPH/	ALT													
Щ	!	Ш	1			6.8	0.5'-1	1.0' Liç	ght b	rowr	າ, fin	ie to	me	dium	ı S/	AND۱	with	n Gr	avel	$\perp$	_	_	
Ш		Ш			!	390.3	1.0'-2	2.5' Da	ark b	rowr	າ fine	e to	med	lium	SA	ND w	vith	Gra	avel				
Ш		Ш	2		!	521.1	Ш		Ш	Ш													
	!	Ш			!	344.5														$\perp$	$\perp$	$\perp$	
Щ	!	Ш	3 —			228.1	2.5'-4	4.0' D	ark t	orow	n me	ediu	m S	AND	) wi	th Gr	ave	el	_	$\perp$	_	_	
Щ	!	Ш				306.0				Ш			_	_			_	$\Box$	_	$\perp$	_	_	
Щ	!	Ш	4			324.8							_	_			_	$\Box$	_	$\perp$	_	_	
Щ	!	Ш				<u> </u>	4.0'-4	4.5' No	o Re	cove	ry								_	$\perp$	_	_	
Щ	!	Ш	5			370.8	4.5'-€	3.5' Da	ark b	rowr	ı and	d gr	ey fir	ne to	) m	ediun	n S.	AND	)	$\perp$	_	_	
Щ	!	Ц			<u> </u>	364.6	igspace			Щ			_	4		Щ	_	_	_	_	_	_	
Щ	!	Ц	6 —		<u> </u>	330.3	$\sqcup$			Щ			_	4		Щ	_	_	_	_	_	_	
Щ	!	Ш			<u> </u>	345.6							$\perp$					$\Box$	_	_	_	_	
		1		TL-SS-5V	(6.5-7.0)	397.4	6.5'-7	7.0' Da	ark d	irev t	o bla	ack	fine	SAN	۱D ،	with C	- ira	vel					J

7.0' Refusal

SOIL	BORING	LOG
Rorir	na Name:	TI -SS-6V

7



Permit No: NA Client: Site Name: Northing: 628292.25 Hess Corporation Port Reading Complex Site Address: Easting: 564092.96 750 Cliff Road, Port Reading, Middlesex County, New Jersey Method: Drilling Company: Subsurface Environmental Technologies (SET) Vacuum Excavation/Hand Auger Start Date:10/7/2014 Complete Date: 10/7/2014 Soil LoggerJudith Kirkbride Depth to Water: 5.5' Boring Diameter: 2" Completion Depth: 7.0' Soil Boring Depth Samples SOIL DESCRIPTION Lithology (feet) ID Depth PID 0 0.0'-0.75' ASPHALT 0.75'-4.0' Orange to brown Silty SAND with fine Gravel 62.4 1 47.4 2 44.8 3 25.6 41.1 4.5'-5.5' Dark grey SAND with medium to fine Gravel 5 21.8 5.5-7.0' Dark grey coarse SAND with medium to fine Gravel TL-SS-6V (5.5-6.0')6 13.1

SOIL BORI	NG LOG				
Boring Nar	ne: TL-SS	5-7V			Envirolrac
Permit No:	NA				Environmental Services
Client:		Site Name:			Latitude:
Hess		Port Reading Refin	iery		40°33'28.311"
Site Addres	SS:				Longitude:
750 Cliff Ro	oad, Port R	eading, New Jersey			74°14'29.562"
Drilling Con	npany:				Method:
Summit Dri					Hand Auger
Start Date:	6/8/12	Complete Date: 6/8	8/12		Soil Logger/Company: SD/ET
Boring Diar	neter: 2"	Completion Depth:	2.0'		Depth to Water: NA
Soil Boring		Sam	nples	-	2011 PERCOPINE
Lithology	(feet)	ID	Depth	PID	SOIL DESCRIPTION
<u> </u>		1			0.0'-0.5' ASPHALT
	0	1			0.5'-1.5' Roadstone and crushed asphalt with brown medium
					SAND
	T   T	TL-SS-7V	1.5'-2.0'		
		_			
	2 —	1			10000

SOIL BORI	NG LOG				
Boring Nar	ne: TL-SS	8V-ز			Envirolrac
Permit No:	NA				Environmental Services
Client:		Site Name:			Latitude:
Hess		Port Reading Refin	iery		40°33'28.503"
Site Addres	SS:				Longitude:
750 Cliff Ro	oad, Port R	Reading, New Jersey			74°14'29.049"
Drilling Con	npany:				Method:
Summit Dril					Hand Auger
Start Date:	6/8/12	Complete Date: 6/8	8/12		Soil Logger/Company: SD/ET
Boring Dian	neter: 2"	Completion Depth:	2.0'		Depth to Water: NA
Soil Boring		San	nples		2011 DESCRIPTION
Lithology	(feet)	ID	Depth	PID	SOIL DESCRIPTION
		†			0.0'-0.5' ASPHALT
	0	1			0.5'-1.5' Roadstone and crushed asphalt with brown medium
		1			SAND
	T   T	TL-SS-8V	1.5'-2.0'	72.3	1.5'-2.0' Brown fine-medium SAND, some rounded Gravel
				49.3	
	2 —	† '			<del>                                     </del>

## SOIL BORING LOG Boring Name: TL-SS-8VV

Envirolrac Environmental Services

Permit No: NA

Client:	Site Name:	Northing:
Hess Corporation	Port Reading Complex	628258.25
Site Address:		Easting:
750 Cliff Road, Port	Reading, Middlesex County, New Jersey	563975.66
Drilling Company:		Method:
Subsurface Environ	mental Technologies (SET)	Vacuum Excavation/ Hand Auger

Start Date:10/8/2014 Complete Date: 10/8/2014 Soil Logger: Matthew Smith

Boring Diameter: 2"	Completion Depth: 8.0'	Depth to Water: 6.5'

Soil Boring	Depth	Samp	les								S	OIL [	)FS	CRI	PTI	ON					
Lithology	(feet)	ID	Depth	PID							0,		JLO	OIXI		014					
	0																				
	Ů				0.0	- 0.5	5' A	SPF	HAL	Γ											
	_ 1			397.5	0.5	'- 1.5	5' Da	ark	brov	vn fi	ne S	SANI	D wi	th m	nediu	um S	San	d an	d Gı	avel	
	'			140.7																	
	2			24.4	1.5'	'- 6.0	D' Bı	row	n fin	e ar	nd m	ediu	ım S	ANI	D wi	th G	irav	el			
				14.4																	
	3			11.5																	
	3			8.8																	
	4			9.0																	
	7			7.6																	
	5			5.8																	
				5.6																	
	6			6.1																	
	0	TL-SS-8VV	(6.0-6.5')	6.2	6.0	'- 8.0	)' Bı	row	n me	ediu	m aı	nd co	oars	e S	AND	) wit	h G	rave	I		
	7			5.8																	
				6.2																	
	8			5.4																	
	_ ° _																				

												_	_				
SOIL BORI	NG LOG													•		<b>.</b>	
Boring Na	me: TL-SS	5-9V													_		ac
Permit No:	NA												Envi	ironm	ental :	Servic	es
Client:		Site Name:								I	_atitud	de:					
Hess		Port Reading Refir	nery							4	40°33	28.9	55"				
Site Addres	3S:									I	ongit	ude:					
750 Cliff Ro	oa <u>d, Port R</u>	eading, New Jersey									74°14	28.2	33"				
Drilling Cor	npany:									1	Metho	d:					
Summit Dri											Hand	Auge	e <u>r</u>				
Start Date:	6/8/12	Complete Date: 6/	/8/12			Soil Lo	gger/	/Com	pany:	SD/E	ΞT						
Boring Diar	meter: 2"	Completion Depth:	: 2.0'			Depth t	to Wa	ater:	NA								
Soil Boring		Sar	mples						2011	2500	ייייי	'.O.N.					
Lithology	(feet)	ID	Depth	PID	1				SOIL	DESC	KIPi	ION					ļ
					0.0'-0.5'	' ASPH	ALT										
	0	1			0.5'-1.0'	' Roads	stone	. crus	shed a	spha	lt, bro	wn m	nediu	ım-fi	ne S	SANI	)
				14.3	1.0'-2.0'												
	1 -	TL-SS-9V	1.5'-2.0'	37.2				Т	$\top$			$\top$					
				24.3			$\Box$	$\top$	$\top$								
	2 —	1					$\vdash$	$\top$	+			+					
							$\Box$	$\top$	$\top$								

																						_
SOIL BORI			-10V													Е	n۱		~	Ir	ac	
Permit No: I	NA																Envi	onm	ental :	Servic	es	
Client:			Site Name:											Lati	tude	e:						٦
Hess			Port Reading Refin	ery										40°	33'2	8.75	53"					
Site Addres	s:													Lon	gitu	de:						ı
750 Cliff Ro	ad,	Port Re	eading, New Jersey											74°	14'2	7.79	94"					
Drilling Com Summit Dril	•	ıy:		Soil Logger/Company:								Met Har			r							
Start Date: 6	6/8/1	2	Complete Date: 6/8	omplete Date: 6/8/12					gger	/Co	mpa	ny:	SD/	ΈT								٦
Boring Dian	nete	r: 2"	Completion Depth:	2.0'			D	epth t	o W	ater	: NA	١										
Soil Boring	D	epth	Sam	ples							90	NII F	DES	CDII	DTI	N						٦
Lithology	(1	eet)	ID	Depth	PID						30	ЛL L	JES	CKII	FIIC	אוכ						
		0				0.0'-	0. <u>5</u> ' A	SPH	ALT													$\Box$
		0				0.5'-	1.0' R	OAD	STC	NE	and	cru	she	d As	pha	lt						
		1			118	1.0'-	2. <u>5</u> ' B	rown	fine	-me	diur	n SA	AND	with	n an	gula	ır Gr	ave	l			
		'			135																	
		2	TL-SS-10V	2.0'-2.5'	105																	
		_			68.3																	

### SOIL BORING LOG Boring Name: TL-SS-10VV Permit No: NA Client: Northing: Site Name: Port Reading Complex 628276.57 Hess Corporation Site Address: Easting: 750 Cliff Road, Port Reading, Middlesex County, New Jersey 564074.39 Drilling Company: Method: Subsurface Environmental Technologies (SET) Vacuum Excavation/ Hand Auger Start Date:10/7/2014 Complete Date: 10/7/2014 Soil Logger: Judith Kirkbride Boring Diameter: 2" Completion Depth: 20.0' Depth to Water: 5.5' Soil Boring Depth Samples SOIL DESCRIPTION PID Lithology ID Depth (feet) 0 0.0'- 0.5' - ASPHALT 714.4 0.5'-7.5' Dark brown Silty SAND with fine to medium Gravel 1 194.7 2 281.5 3 202.1 4 394 5 600.3 6 547 7 7.5'-12.5' Dark brown coarse SAND with fine Gravel 616 8 480.8 9 305 10 195 11 12 331 12.5'-14.0' BrownSandy medium to fine GRAVEL 13 705 14 14.0'-19.5' No Recovery 15 16 17 18 19 TL-SS-10VV (19.5-20.0) 3.5 19.5-20.0' Brown CLAY with Gravel 20

SOIL BORI																	F	n\		~	T	ac	
Boring Nar Permit No:		TL-SS	-11V																_		Servic		
Client:			Site Name:												Lati	tude	<b>:</b> :						
Hess			Port Reading Refin	ery											40°3	33'2	8.37	78"					
Site Addres		Port Re	eading, New Jersey												Lon 74°	-		56"					
Drilling Con Summit Dril	•	ıy:		nplete Date: 6/8/12											Met Han			r					
Start Date:	6/8/1	12	Complete Date: 6/	omplete Date: 6/8/12					Log	ger,	/Co	mpa	ny:	SD/	ΕT								
Boring Dian	nete	r: 2"	Completion Depth:	1.5'			[	Dep	th to	) W	ater	: NA	١										
Soil Boring	D	epth	San	nples								SC	ЛІ Г	DES	CRII	)TIC	N						
Lithology	(1	feet)	ID	Depth	PID							50	/IL L	JLO.	CIVII	110	אוכ						
		0				0.0'-0.5' ASPHALT																	
		0			3.0	0 0.5'-1.5' Angular Gravel and bro					own	Silty	/ SA	ND									
		1			2.3																		
		'	TL-SS-11V	1.0'-1.5'	1.7																		

SOIL BORING LOG		•	•												_	_	
Boring Name: TL-SS	-11VV											E	ny	ir		ra	C
Permit No: NA													Enviro	nment	tal Servi	ices	
Client:	Site Name:										Northi	ng:					
Hess Corporation	Port Reading Complex										62825	2.49					
Site Address:											Eastin	-					
	eading, Middlesex County	y, New Jerso	еу								56402	23.15					
Drilling Company:											Metho						
	ental Technologies (SET)										Vacuu	ım Ex	cava	tion/ l	Hand	Aug	er
Start Date:10/7/2014	Complete Date: 10/7/20								dith Kirk	cbrid	е						_
Boring Diameter: 2"	Completion Depth: 20.0			_		Dept	th to W	/ater:	5.5'								_
Soil Boring Depth	Sampl	1		-					SOIL	DES	CRIPT	ION					
Lithology (feet)	ID	Depth	PID	<del>                                     </del>		_						_		—	—	—	-
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11				Щ	_	4	_	$\square$			+			+	4	<u>                                     </u>	_
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13	TL-SS-11VV	(12.5-13.0)	10.1	12.5	-14.	0 D	rown c	oars	e SAND	) Witi	) fine c	Jave	el .	+	+	+	

13.2

ING LOG																			
	S-12V														-n	VI	ro	Tr	3
	3-12 <b>V</b>														Er	viron	mental	Servi	ces
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	Port Reading Refi	nery																	
														-		_			
	Reading, New Jersey	/										- 7	74° <i>′</i>	14'27	.794				
												N	Иet	hod:					
lling												[	Dire	ct Pu	ısh				
6/8/12	Complete Date: 6	6/8/12			5	Soil	Log	ger/	Cor	npa	ny:	SD/E	Τ						
neter: 2"	Completion Depth	: 20.0'				Эер	th to	) Wa	ater:	1.5	j'								
Depth	Sa	mples								90	)   [	)ESC	, Bit	OTIO	NI				
(feet)	ID	Depth	PID							00	/IL L	<i>,</i>	/1 (11	110					
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			00.5							0.11						+			
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			8.1	6.0'	-7.0'	Bro	own r	med	ium	SA	ND '	with :	son	ne Gi	avel	and	fill (b	rick)	
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8 -			336	8.0	9.5	NO	recc	overy	/			-		-	+	+	+		
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9 –			5.5	9.5'	-11.0	' G	rayis	h br	owr	n me	ediu	m SA	١NE	) with	Gra	vel			
10			7.9													I			
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11				11.0	)'-12.	0'	Gray	/ me	diu	m S	ANE	) with	۱ G	ravel		+			
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12			7.3	13.0	)'-14.	0' (	Gray	ish t	orov	vn S	ilty	SANI	D			$\top$			
13			9.1													I			
14 —			6.3	14.0	)'-15.	0' E	3row	n m	ediu	um c	coar	se S	ANI	)		#			
				45.0	1.40	0' '	ادد		. 0:	17/	'a	4)	_	-	+	+	-		
15				15.0	7-16.	U' L	Jark	gray	y SI	LI(	pea	t)			_	4			
-			39.3																1 6
r	SS: oad, Port F mpany: illing 6/8/12 meter: 2" Depth (feet) 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14	Site Name: Port Reading Refi ss: oad, Port Reading, New Jersey mpany: illing 6/8/12 Complete Date: 6 meter: 2" Completion Depth Depth (feet) ID  1 TL-SS-12V  2 3 3 4 5 6 7 7 8 8 9 9 10 11 11 12 13 14	Site Name: Port Reading Refinery  ss: oad, Port Reading, New Jersey mpany: illing 6/8/12	Site Name:   Port Reading Refinery	Site Name:   Port Reading Refinery	Site Name:   Port Reading Refinery	Site Name:	Site Name:	Site Name:   Port Reading Refinery	Site Name:	Site Name:   Port Reading Refinery	Site Name:   Port Reading Refinery	Site Name:   Port Reading Refinery   Site Name:   Port Reading Refinery   Site Name:   Port Reading Refinery   Site Name:   Port Reading, New Jersey   Toward Park (Feet)   Poeth   Samples   Soil Logger/Company: SD/E   Soil L	Site Name:					

16.1 12.1

3.6 239

219 52.8

8.4 20.2

16

17

18

19

SOIL BORING LOG

15



Boring Name: TL-SS-12VV Permit No: NA Client: Site Name: Northing: 628225.88 Port Reading Complex Hess Corporation Easting: Site Address: 750 Cliff Road, Port Reading, Middlesex County, New Jersey 564007.27 Drilling Company: Method: Subsurface Environmental Technologies (SET) Vacuum Excavation/Direct Push Start Date:10/8/2014 Complete Date: 10/8/2014 Soil Logger: Matthew Smith Boring Diameter: 2' Completion Depth: 14.0' Depth to Water: 7.0' Soil Boring Depth Samples SOIL DESCRIPTION Lithology (feet) ID Depth PID 0 0.0'- 0.75' ASPHALT 100.5 0.75'- 4.5' Brown to dark brown fine and medium SAND with Gravel 1 64.0 80.9 2 61.6 79.7 3 369.6 375.0 449.1 4.5'- 7.0' Dark gray Silty fine SAND with Gravel 5 415.5 307.8 6 340.0 397.7 7 508.9 7.0'- 8.5' Dark brown to dark gray Silty fine SAND with Gravel 547.1 8 698.0 8.5'- 13.0' Dark brown medium and coarse SAND with Gravel 9 50.4 10 11 12 TL-SS-12VV (12.5-13.0') 9.8 13.0'- 14.0' Dark brown to black Silty CLAY with organic material 14

#### SOIL BORING LOG Envirolrac Boring Name: TL-SS-13V Permit No: NA Client: Site Name: Northing: 628311.09 Hess Corporation Port Reading Complex Site Address: Easting: 750 Cliff Road, Port Reading, Middlesex County, New Jersey 564124.36 Method: Drilling Company: Subsurface Environmental Technologies (SET) Vacuum Excavation/Hand Auger Complete Date: 10/7/2014 Start Date:10/7/2014 Soil LoggerJudith Kirkbride Depth to Water: 6.5' Boring Diameter: 2" Completion Depth: 8.0' Soil Boring Depth Samples SOIL DESCRIPTION Lithology (feet) ID Depth PID 0 0.0'-0.75' ASPHALT 115.0 0.75'-4.0' Dark red to brown Silty SAND with Gravel 1 113.0 2 18.0 3 14.3 26.2 4.5'-7.0' Brown Silty medium to fine SAND with fine Gravel 5

11.5

25.0

16.0

7.0'-8.0' Sandy fine to medium GRAVEL

(6.5-7.0')

6

7

8

TL-SS-13V

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SOIL BORI	ING LOG																(	<b>3</b> F7	_	_
Boring Nar		S-13														VI	_		a	C
Permit No:	NA														E	nvironr	nentai	Servic	tes	
Client:		Site N	lame:										Lati	itude:						
Hess		Port R	Reading Refine	ery									40°	33'29	0.067	r11				
Site Addres	ss:												Lon	gitud	le:					
750 Cliff Ro	oad, Port	Reading,	New Jersey										74°	14'27	'.168	}"				
Drilling Con	npany:												Met	thod:						
Summit Dri	lling												Dire	ect Pu	ush					
Start Date:	6/18/12	Comp	olete Date: 6/1	18/12			So	il Lo	gger	r/Cor	mpar	ny: SD	/ET							
Boring Diar	neter: 2"	Comp	letion Depth:	11.0'			De	pth t	to W	ater	: 6.0'									
Soil Boring	Depth		Sam	iples							SOI	L DES	:CBI	DTIO	NI					
Lithology	(feet)		ID	Depth	PID						301	LDE	CNI	FIIO	IN					
	0 -					0.0'-0	).5' A	SPH.	ALT											
		T!	L-TW-13	0.5'-1.0'	69.9	0.5'-1	.0' D	ark t	rowi	n/gra	ay fin	e SAN	ID							
	1				778.0	1.0'-5	5.0' R	eddi	sh bı	rowr	fine	SANE	anc	d Grav	vel					
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<sup>\*</sup>Groundwater sample TL-TW-13 collected from temporary well screened from 0.0'-11.0' below grade

SOIL BO	RING LOG													•	_	_	
Boring N	lame: TL-SS	<b>3-16</b>											:h	VII	O'	ir	ac
Permit No	o: NA										_		Env	ironme	ntai 5	ervice	5
Client:		Site Name:									Nor	thing:					
Hess		Port Reading Refir	nery								1	152.5	7				
Site Addr												ting:					1
		Reading, New Jersey									+	012.3	0				
Drilling C		Tachnologica (	(OCT)									hod:					1
	e: 10/9/14	ental Technologies (\$	` '			Sail L	2220	N/c	# Sm	الماء:	Паі	nd Aug	jei		—	—	—
	e: 10/9/14 ameter: 2"	Complete Date: 10 Completion Depth:				Depth			att Sm	litri					—	—	—
Soil Borin			mples			Jepui	lU vv	alti.	: 5.5						_	—	—
Lithology	· ·	ID	Depth	PID	1				SOII	L DES	SCRII	PTION	1				•
		+													_		$\neg$
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	8	+		0.0	7.5'-8.0' E	Brow	n fine	to II	neaiu	m SA	ND w	/ith Gi	avei	$\vdash$	+	+	-

SOIL BOR	ING	LOG																					
Boring Na			-SS-1														Ε	n۱	ŽΪ	CO	Ir	a	C
Permit No:																		Envi	ronme	ental :	Servic	es	
Client:			Site Name:												Nort	hing	:						
Hess Corp	orati	on	Port Reading Comple	X											6298	383.	33						
Site Addres		Port R	eading, Middlesex Cou	nty, New Jers	sey										East 5648	ting: 836.4	14						
Drilling Cor	mpaı	ny:													Meth	nod:							
Subsurface	∍ Env	vironme	ental Technologies (SE	T)											Vac	uum	Ex	cava	atior	า/ Di	rect	Pu	sh
Start Date:			Complete Date: 8/18/										Kirk	brid	le							_	_
Boring Dia			Completion Depth: 15			_		Dep	th to	o Wa	ater	: 3.0	)'									_	_
Soil Boring		Depth	Sam	<del>'</del> 1		_						SC	IL D	ES	CRIF	PTIO	N						
Lithology	- (	(feet)	ID	Depth	PID	₩		$\overline{}$	_							_					$\neg$	_	_
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		1 —				0.5	-5.5	Dia	UK C	) (V	. V	- (uc	pria.	l a.	10 00	Jaij					$\exists$		H
		2				П		$\dashv$		П					$\dashv$								
		2	VLRR-SS-1	(2.0-2.5)	2.5																		
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	Ш					Ш		_	_						_	_							
	Н	5 —	\# 55 00 <i>i</i>	( )					ᆜ	Щ													
			VLRR-SS-1	(5.0-5.5)	0.0	5.0	'-12.0	)' Re	eddi	ish b	orow	n C	LAY	with	n sm	all a	ngu	ılar	Gra	vel	$\neg$	_	┝
		6				$\vdash$		$\dashv$							$\dashv$	+					$\dashv$		H
								$\dashv$													$\neg$		Н
		7				П		$\dashv$															
		8						$\neg$	$\neg$														
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						Н		$\dashv$	$\dashv$														H
		11				$\vdash$		$\dashv$	$\dashv$														H
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						12.0	0-13	.0 (	ысу	/ SIL	.1 a	iiu C	Jay (	IVIC	auuv	W IVIC	11)						
	Н	13			0.0	П		$\dashv$	$\neg$												$\dashv$		

0.0 30

7.6 7.2

14

## SOIL BORING LOG Boring Name: VLRR-SS-2 Permit No: NA Client: Site Name: Hess Corporation Site Address: Drilling Company:



Northing: 629906.33 Port Reading Complex Easting: 750 Cliff Road, Port Reading, Middlesex County, New Jersey 564852.15 Method: Subsurface Environmental Technologies (SET) Vacuum Excavation/ Direct Push Start Date:8/19/2014 Complete Date: 8/19/2014 Soil Logger: Judith Kirkbride, Mathew Smith Depth to Water: 3.5' Boring Diameter: 2" Completion Depth: 12.5'

Soil Boring	Depth	Sam	ples		SOIL DESCRIPTION
Lithology	(feet)	ID	Depth	PID	- GOIL BEGOINT HON
	0				
				0.0	0.0'-1.0' Brown Sandy SILT organic with large Gravel (red brick)
	1			0.0	4 CL4 El Disek CDAVEL (seel and Asphalt)
				0.0	1.0'-1.5' Black GRAVEL (coal and Asphalt)  1.5'-3.5' Brown organic Sandy SILT with gravel
	2			0.0	1.5 5.5 Brown organic carray of a with graver
	3				
	3				
	4	VLRR-SS-2	(3.5-4.0)	0.0	3.5'-4.0' GRAVEL fill (brick, coal)
	5				
				0.0	5.5'-6.0' Red brown CLAY with Gravel
	6			0.8	6.0'-10.0' Light brown Silty CLAY (60% Recovery)
	7			0.0	
	7				
	8				
	9 —				
	10			0.0	10.0'-12.0' Light brown Silty CLAY
	11				
	12				
	1			0.8	12.0'-12.5' Dark brown to black SILT with organic material

SOIL BORI	NG I	OG																					
Boring Nar			SS-3														Е	n	Ž	ro	Tr	ā	Ē
Permit No:																		Env	ronm	nental	Servi	ces	
Client:			Site Name:												Noi	rthin	ıg:						
Hess Corpo	ratio	n	Port Reading Complex	K											629	928	3.37						
Site Addres	s:														Eas	sting	<b>j</b> :						
750 Cliff Ro	ad, F	ort Re	eading, Middlesex Cour	nty, New Jers	sey										564	1875	5.18						
Drilling Con	npany	<b>/</b> :													Me	thoc	d:						
Subsurface	Envi	ronme	ntal Technologies (SET	Γ)											Vac	cuur	n Ex	cav	atio	n/ Di	rect	Pus	sh
Start Date:8	3/19/2	2014	Complete Date: 8/19/2	2014			,	Soil	Log	ger	: M	athe	w S	mith	1								
Boring Dian	neter	: 2"	Completion Depth: 12	2.5'			ı	Dep	th to	) W	ater	: 3.5	i'										
Soil Boring	De	epth	Sam	pples SOIL DESCRIPTION  Depth PID																			
Lithology	(fe	eet)	ID	Depth	PID							00	,ı	<b>J</b> LO	OIXI		0.1						
		0 —																					
		-				0.0'-1	.0'	Bro	wn (	SAN	۱D ۷	vith	orga	anic	mat	eria	d						
		1			297																		
						1.0'-1	.5'	Dar	k br	owr	n an	d bla	ack	Silty	/ fine	e SA	AND	with	n Gr	avel			
		2	VLRR-SS-3	(1.5-2.0)	1,163	1.5'-4	.5'	Blad	ck G	RA	VEI	_ an	d cc	arse	e Sa	and	(coa	ıl)					
					1,040		4	_	_														
		з —																					
		_					_																
	_	4 —				$\vdash$	_	_	_														
							4																
	_	5 —			2.4	4.5'-6	.0'	Ligh	nt br	OWI	n Sil	ty C	LA	/, tra	ice (	Gra	vel						
							+	_	-														
		6 —					_				•					_	<u>.</u>						
					3.4	6.0'-9	.0'	Ligh	nt br	OWI	n Sil	ty C	LAY	r, tra	ice (	Gra	vel						
	$\dashv$	7 —				$\vdash$	4	$\dashv$	$\dashv$													$\vdash$	
	+						+	$\dashv$	$\dashv$													$\vdash$	
		8 —					-														$\vdash$		

9.0'-10.0' No recovery

0.9

10.0'-12.0' Light brown Silty CLAY, trace Gravel

12.0'-12.5' Dark brown SILT with organic material (meadow mat)

10

11

Boring Name: VLRR-SS-4 Permit No: NA  Client: Site Name: Northing: 629949.44  Clients: Site Address: Easting: 750 Cliff Road, Port Reading, Middlesex County, New Jersey 564897.19  Orilling Company: Method: Vacuum Excavation/ Direct Push Sarring Diameter: 2" Completion Depth: 12.5' Depth to Water: 3.5'  Soil Boring Depth Samples  Soil Logger: Mathew Smith Soil Logser: Mathew Smith Soil Logser: Mathew Smith Soil Depth Samples															
Depth   Dept	SOIL BORING LOG										Ln	-0	20	<b>K</b> O	
Site Name:   Northing:	=	2-SS-4									En	vironm	ental Se	vices	
Hess Corporation Port Reading Complex  Easting: 5750 Cliff Road, Port Reading, Middlesex County, New Jersey  Subsurface Environmental Technologies (SET)  Subsurface Environmental Technologies (SET)  Method: Vacuum Excavation/ Direct Push Start Date:8/19/2014  Soil Logger: Mathew Smith Complete Date: 8/19/2014  Soil Logger: Mathew Smith Depth Obepth: 12.5'  Depth to Water: 3.5'  SOIL DESCRIPTION  Lithology  (feet)  Depth Samples  O July 1.0'-4.0' Black GRAVEL and Slag (coal fill)  VLRR-SS-4  (2.5-3.0)  48.9  VLRR-SS-4  (2.6-3.0)  48.9  July 1.0'-4.0' Black GRAVEL and Slag (coal fill)  A July 1.0'-6.0' Light brown Sitty CLAY, trace Gravel  A July 1.0'-6.0' Light brown Sitty CLAY, with trace Gravel  July 1.0'-1.0' Brown Sity CLAY, with trace Gravel  July 1.0'-1.0' Brown Sity CLAY, with trace Gravel  July 1.0'-1.0' Brown Sity CLAY, with trace Gravel	Permit No: NA										2		oritar oci	11000	
Site Address: F56 Cliff Road, Port Reading, Middlesex County, New Jersey F56 Cliff Road, Port Reading, Middlesex County, New Jersey F56 Cliff Road, Port Reading, Middlesex County, New Jersey F56 Cliff Road, Port Reading, Middlesex County, New Jersey F56 Cliff Road, Port Reading, Middlesex County, New Jersey F56 Cliff Road, Port Reading, Middlesex County, New Jersey F56 Cliff Road, Port Reading, Middlesex County, New Jersey F56 Cliff Road, Port Reading, Middlesex County, New Jersey F56 Cliff Road, Port Reading, Middlesex County, New Jersey F56 Cliff Road, Port Reading, Middlesex County, New Jersey F56 Cliff Road, Port Reading, Middlesex County, New Jersey F56 Cliff Road, Port Reading, Middlesex County, New Jersey F56 Cliff Road, Port Reading, Middlesex County, New Jersey F56 Cliff Road, Port Reading, Middlesex County, New Jersey F56 Cliff Road, Port Reading, Middlesex County, Method: F56 Cliff Road, Port Reading, Middlesex County, Method: F56 Complete Date: 8/19/2014 F57 Cliff Road, Port Reading, Middlesex County, Method: F56 Complete Date: 8/19/2014 F57 Complete Date: 8/19/2014 F57 Complete Date: 8/19/2014 F58 County F16 Complete Date: 8/19/2014 F58 County F16 Complete Date: 8/19/2014 F58 County F16 County F16 Cliff Roading F16 Cliff	Client:	Site Name:							No	rthing	g:				
750 Cliff Road, Port Reading, Middlesex County, New Jersey  Sed4997.19  Method: Vacuum Excavation/ Direct Push Soil Logger: Mathew Smith  Soil Logger: Mathe	Hess Corporation	Port Reading Complex							629	9949.	.44				
Method:   Vacuum Excavation/ Direct Push   Vacuum Excavation   Va	Site Address:								Ea	sting:	:				
Vacuum Excavation/ Direct Push   Vacuum Excavation	750 Cliff Road, Port R	eading, Middlesex County, New Jers	sey						564	4897.	.19				
Start Date:8/19/2014   Complete Date: 8/19/2014   Soil Logger: Mathew Smith	Drilling Company:								Ме	thod:	•				
Soring Diameter: 2" Completion Depth: 12.5' Depth to Water: 3.5'  Soil Boring Lithology (feet) Depth Lithology (feet) ID Depth Samples SOIL DESCRIPTION  45.3 0.0'-1.0' Brown Silty fine SAND with organic material and Gravel  50.1 1.0'-4.0' Black GRAVEL and Slag (coal fill) Soil Soil Description	Subsurface Environm	ental Technologies (SET)							Va	cuum	Exca	vatior	n/ Dire	ct Pus	sh
Depth   Samples   Depth   ID   Depth   PID   SOIL DESCRIPTION	Start Date:8/19/2014	Complete Date: 8/19/2014			Soil Lo	gger:	Mathe	ew Sr	nith						
Lithology (feet) ID Depth PID    45.3 0.0°-1.0° Brown Silty fine SAND with organic material and Gravel    1	Boring Diameter: 2"	Completion Depth: 12.5'			Depth	to Wa	ater: 3.	5'							
Lithology (feet) ID Depth PID    45.3 0.0°-1.0° Brown Silty fine SAND with organic material and Gravel    1	Soil Boring Depth	Samples					S.	711 L	ESCD	IDTI	)NI				
45.3 0.0'-1.0' Brown Silty fine SAND with organic material and Gravel  50.1 1.0'-4.0' Black GRAVEL and Slag (coal fill)  7		ID Depth	PID			_	50	JIL D	ESUK	ir IIC	JIN				
45.3 0.0'-1.0' Brown Silty fine SAND with organic material and Gravel  50.1 1.0'-4.0' Black GRAVEL and Slag (coal fill)  7	0														
50.1 1.0'-4.0' Black GRAVEL and Slag (coal fill)  2			45.3	0.0'-1.0	)' Brown	Silty	fine S/	۹ND۱	with or	ganic	mate	rial ar	nd Gra	vel	
50.1 1.0'-4.0' Black GRAVEL and Slag (coal fill)  2	4														
2			50.1	1.0'-4.0	) Black	GRA	VEL an	id Sla	g (coa	l fill)					
3 VLRR-SS-4 (2.5-3.0) 48.9 4 4 4 4.0'-6.0' Light brown Silty CLAY, trace Gravel 5 5 6 3.0 6.0'-9.0' Light brown Silty CLAY, with trace Gravel 7 8 9 5.3 9.0'-10.0' Black GRAVEL 10 5.5 10.0'-11.0' Brown fine to medium SAND, with trace Gravel															
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	2														
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		VLRR-SS-4 (2.5-3.0)													
4.0'-6.0' Light brown Silty CLAY, trace Gravel  5  6  3.0 6.0'-9.0' Light brown Silty CLAY, with trace Gravel  7  8  9  5.3 9.0'-10.0' Black GRAVEL  10  5.5 10.0'-11.0' Brown fine to medium SAND, with trace Gravel  11  1.4 11.0'-12.5' Dark brown SILT with organic material	3		48.9												
4.0'-6.0' Light brown Silty CLAY, trace Gravel  5  6  3.0 6.0'-9.0' Light brown Silty CLAY, with trace Gravel  7  8  9  5.3 9.0'-10.0' Black GRAVEL  10  5.5 10.0'-11.0' Brown fine to medium SAND, with trace Gravel  11  1.4 11.0'-12.5' Dark brown SILT with organic material															
5 — 3.0 6.0'-9.0' Light brown Silty CLAY, with trace Gravel  7 — 8 — 9 — 5.3 9.0'-10.0' Black GRAVEL  10 — 5.5 10.0'-11.0' Brown fine to medium SAND, with trace Gravel  11 — 1.4 11.0'-12.5' Dark brown SILT with organic material	4			4.0'-6.0	)' Liaht k	rowr	Silty C	LAY.	trace	Grav	el				
3.0 6.0'-9.0' Light brown Silty CLAY, with trace Gravel  7  8  5.3 9.0'-10.0' Black GRAVEL  10  5.5 10.0'-11.0' Brown fine to medium SAND, with trace Gravel	_				Ĭ										
3.0 6.0'-9.0' Light brown Silty CLAY, with trace Gravel  7  8  5.3 9.0'-10.0' Black GRAVEL  10  5.5 10.0'-11.0' Brown fine to medium SAND, with trace Gravel  11  1.4 11.0'-12.5' Dark brown SILT with organic material	5														
3.0 6.0'-9.0' Light brown Silty CLAY, with trace Gravel  7  8  5.3 9.0'-10.0' Black GRAVEL  10  5.5 10.0'-11.0' Brown fine to medium SAND, with trace Gravel  11  1.4 11.0'-12.5' Dark brown SILT with organic material															
8	6		3.0	6.0'-9.0	)' Liaht k	rowr	Silty C	LAY.	with ti	race (	Grave				
8	_														
9 5.3 9.0'-10.0' Black GRAVEL  10 5.5 10.0'-11.0' Brown fine to medium SAND, with trace Gravel  11 1.4 11.0'-12.5' Dark brown SILT with organic material	7														
9 5.3 9.0'-10.0' Black GRAVEL  10 5.5 10.0'-11.0' Brown fine to medium SAND, with trace Gravel  11 1.4 11.0'-12.5' Dark brown SILT with organic material															
5.3 9.0'-10.0' Black GRAVEL  10  5.5 10.0'-11.0' Brown fine to medium SAND, with trace Gravel  11  1.4 11.0'-12.5' Dark brown SILT with organic material	8														
5.3 9.0'-10.0' Black GRAVEL  10  5.5 10.0'-11.0' Brown fine to medium SAND, with trace Gravel  11  1.4 11.0'-12.5' Dark brown SILT with organic material															
10 5.5 10.0'-11.0' Brown fine to medium SAND, with trace Gravel  11 1.4 11.0'-12.5' Dark brown SILT with organic material	9		5.3	9 0'-10	0' Black	GR	AVFI								
11 1.0'-12.5' Dark brown SILT with organic material			0.0	0.0 10	.o Blaci		(VEL								
11 1.4 11.0'-12.5' Dark brown SILT with organic material	10		5.5	10 0'-1	1 0' Bro	wn fir	ne to m	ediun	n SAN	D wit	th trac	e Gra	vel		
1.4 11.0'-12.5' Dark brown SILT with organic material			0.0	10.0	1.0 0.0		10 10 111	Jaian		,	ur udo	Joia			
	11	1	1 4	11.0'-1	2.5' Dar	k bro	wn SII	T with	organ	nic m	aterial	$\forall \forall$			
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								$\Box$							

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SOIL BORIN							·		<b></b>	·	·				<u> </u>			<del></del>	T.	_	=
Boring Nam		-SS-5														Envir		ontal (	Carviv	a	
Permit No: N	۱A															Envis	Omne	ahtar a	servic	es	
Client:		Site Name:				_	_	_	_	_	_		Nor	rthing	g:	_	_	_	_	_	_
Hess Corpor	ration	Port Reading Complex	x										629	968.	.82						
Site Address	s:											ļ	Eas	sting:	:						
750 Cliff Roa	ad, Port Ro	eading, Middlesex Coun	nty, New Jerse	еу									564	1921.	.63						
Drilling Com	ipany:			_		_	_	_	_	_	_		Met	thod:	:	_	_	_	_	_	_
Subsurface	Environme	ental Technologies (SET	Γ)	_									Vac	uum	ı Ex	cava	ation	ı/ Dir	rect	Pus	h
Start Date:8/	/18/2014	Complete Date: 8/19/2	2014			;	Soil	Logç	ger:	lvar	ı Pav	vlenko	0	_	_	_	_	_	_	_	
Boring Diam	ieter: 2"	Completion Depth: 12	2.25'				Dept	th to	Wa	ter: 4	4.5'	_	_	_	_	_	_	_	_	_	
Soil Boring	Depth	Sam	nples		]	-	_	_	_	:	SOIL	DES	:CRI	- PTIC	NC	_	-	_	_	-	
Lithology	(feet)	ID	Depth	PID	<u> </u>						JU	U	<u> </u>	· · · ·	<i>/</i> /\				_		
	0 —																				
				0.0	0.0'-	1.0'	Red	ldish	ı bro	wn S	Silty C	3RAV	/EL v	with	trac	e Sa	and	Щ	_	_	
	1																				
				0.0	1.0'-	2.0'	Red	ldish	ı bro	wn S	Silty C	Claye	y GF	RAVE	EL v	vith t	race	e Sa	nd a	and	
	2				Ш		conc	crete	deb	ris	$\perp$			Щ		Щ		Щ	$\Box$		
		VLRR-SS-5	(2.0-2.5)	0.0	2.0'-	3.0'	Blac	ck Sa	andy	/ Gra	ıvel (	Coal	Slaç	(دِ	Щ	with trace Sand	_	_			
	з				Ш					$\perp$	$\bot$		Ш		Coal Slag)	_	_				
$\square$	+			0.0	3.0'-	4.5'	Blac	ck G	rave	lly co	oarse	SAN	1D ((	Coal	Sla	ıg)		$\square$	_	_	
	4				$\sqcup$	_	4	4	4	4	4	$\perp \!\!\! \perp$	Ш	Щ	Щ	$\Box$	_	$\square$	_	_	لــــ
$\square$	+			<u> </u>									Ш			Щ		4	_	_	
	5			0.0	4.5'-	5.25	5' Gr	ey c	oars	e Gr	avell	y SAI	ND a	and \	Woo	od de	əbris	3	$\dashv$	_	
	+			<b>——</b>	$\perp$					$\perp$			Ш	Ш		$\Box$		$\vdash$	$\dashv$	_	
	6 —	_		0.0	_							AY w	ith tr	race	Silt	$\dashv$		$\vdash$	$\dashv$	$\dashv$	$\Box$
	+			0.0	6.0'-	7.0'	Gre	y fine	e Sil	ty S/	AND	4	$\square$			$\vdash$		$\vdash$	$\rightarrow$	$\rightarrow$	
	7 —	4			+		_		_				Ш	Щ	$\square$	$\vdash$	$\rightarrow$	$\vdash$	$\dashv$	$\dashv$	
	++			0.0	7.0'-	12.0	)' Gr	ey co	ours	e SA	AND \	with to	race	Silt		$\vdash$	$\rightarrow$	$\vdash$	$\dashv$	$\dashv$	
	8	_		<del></del>	$\vdash$	_	$\dashv$	+	+	+	+	+	$\square$	$\square$		$\vdash$		-	$\dashv$	_	
	++					$\dashv$	$\dashv$	+	+	+	+	$+$ $\cup$	$\square$	H	$\square$	$\vdash$		$\vdash$	$\dashv$	$\dashv$	
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	++			1	++	$\dashv$	+	+	+	+	+	₩	$\vdash$	$\vdash \vdash$		$\vdash$	_	$\vdash$	$\dashv$	$\rightarrow$	$\dashv$
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			l j	4									1 /							- 1	

12.0'-12.25' Green-brown Silty CLAY (Meadow Mat)

SOIL BORI	NG L	.OG				
Boring Nar	me: `	VLRR	-SS-6			Enviroirac
Permit No: I	NA					Environmental Services
Client:			Site Name:			Northing:
Hess Corpo	ratio	n	Port Reading Complex	x		629990.84
Site Addres	SS:					Easting:
750 Cliff Ro	oad, I	ort R	eading, Middlesex Cour	nty, New Jers	ey	564946.13
Drilling Con	npan	y:				Method:
Subsurface	Env	ironm	ental Technologies (SE	Γ)		Vacuum Excavation
Start Date:8	3/18/2	2014	Complete Date: 8/18/2	2014		Soil Logger: Ivan Pawlenko
Boring Dian	neter	: 2"	Completion Depth: 2.2	25'		Depth to Water: Not Encountered
Soil Boring	D	epth	Sam	nples		SOIL DESCRIPTION
Lithology	(f	eet)	ID	Depth	PID	SOIL DESCRIPTION
		0				
		0			0.0	0.0'-0.33' CONCRETE debris
		1			0.0	0.33'-0.5' Red brown Silty GRAVEL with trace Sand
		'	VLRR-SS-6	(1.75-2.25)	0.0	0.5'-1.75' Red brown Sandy SILT with trace Clay and
		2				debris (rebar and asphalt)
					0.0	1.75'-2.25' Red brown Clayey SILT with trace fine Sand
		3 —				
		3				2.25' Refusal

SOIL BORING Boring Nam	ne: VLF		SS-7													E	1V Envir	onma	ontal :	Servic	a	c
Client: Hess Corpor			Site Name: Port Reading Complex												rthin	-						
Site Address	s:		ading, Middlesex Coun		ey									Eas	sting 4980	j:		_	_			
	Environ		ntal Technologies (SET											Vac	thod cuun		cava	atior	ı/ Di	rect	Pus	sh
Start Date:8			Complete Date: 8/18/2										wlenk	(0	_	_	_	_	_	_	_	
Boring Diam			Completion Depth: 10.	.0'		<del>-</del>		)ep	th to	Wat	er:	4.0'						_	_	_	_	
Soil Boring	Depth		Samı	<del>'i</del>		4						SOII	L DES	CRI	PTIC	NC						
Lithology	(feet)	)	ID	Depth	PID	+		_	_	_	_	_	_	_				$\overline{}$	_	$\overline{}$	_	$\blacksquare$
	0				0.0	0.0'-	0.5' I	Bro	wn C	Grave	ely	Sand	dy SIL	T_				$\exists$	$\exists$			
	1	$\exists$			0.0	0.5'-	4.25	' Re	∍ddis	sh br	IWO	n Gra	avelly	Silty	San	ıdy C	CLAY	1	$\exists$			
	2					$\parallel$	#	#	$\pm$	$\pm$	#	$\pm$	$\pm$	L				$\exists$	$\exists$		$\exists$	
	3 -					$\parallel$	+	+	+	$\pm$	+	$\downarrow$	$\pm$					$\exists$	$\exists$	$\dashv$		
	4					$\blacksquare$	#	#	$\mp$	$\pm$	#	+	$\pm$					$\dashv$	$\dashv$			
	5		VLRR-SS-7	(4.5-5.0)	0.2	4.25	'-6.0'	' Re	ed br	rown	, m	ediur	m Sar	ndy S	Silty (	CLA	Y (C	oal	Slaç	3)		
	6				0.0	6.0	2.25	<u> </u>	- ul - p,	- ddie	<u></u>		Cilbre	2250		^ NID		#	$\dashv$	$\dashv$		
	7				0.0	0.0 -	9.25	De	AIK IE	eduis	in-ç	Jray (	Silty c	Oars	e Sr	AIND		$\dashv$	$\dashv$			
	8						#	#	$\pm$	#	+	#	#					$\exists$	$\exists$			
	9					世	$\pm$	$\pm$	$\pm$	士	$\pm$	士	$\pm$	L				$\exists$	$\exists$	$\exists$		
	10				0.0		5'-10.0 adow			nish	bro	wn S	Silty C	LAY	with	org	anic	mat	eria	ıl		

SOIL BORI																		2	16		_
Boring Nar		R-SS-8															•	nental		ces	
Permit No:	NA	Cita Nama											Na	د: داند					—		_
Client:		Site Name:												rthin	-						
Hess Corpo Site Addres		Port Reading Comple	x										+	9732							_
		Reading, Middlesex Cou	nty New Jer	eev.										sting 5111							
Drilling Con		ceauling, ivilidatesex ood	inty, ivew oci	ЗСУ									_	thoc							_
_	-	ental Technologies (SE	T)												ı. n Ex	cav	atio	n/ D	irect	Pus	h
		Complete Date: 8/20/2					Soi	Lo	aaei	: Ma	atthe	w Sm		<i>-</i>		00.	u	.,			Ė
Boring Diar		Completion Depth: 1									: 5.0										_
Soil Boring	Depth		nples													_					_
Lithology	(feet)	ID	Depth	PID	1						SO	IL DE	SCRI	PTI	NC						
																					_
	0 -			5.0	0.0	)'-1.0	' Liç	ht b	row	n Sil	ty fir	e SAI	ND a	nd G	rave	əl					
	4																				
	1 –			11.4	1.0	)'-2.5	' Bro	own	Silty	y CL	AY v	/ith G	avel								
	2																				
	-	VLRR-SS-8	(2.0-2.5)																		
	з			2.1	2.5	5'-3.0	' Bro	own	Silty	y fine	e SA	ND wi	th Cl	ay a	nd G	}rav	⁄el				
				0.0	3.0	)'-6.0	' Bro	own	Silty	y CL	AY v	ith G	avel.								
	4															_	_				_
											_		-			_		Ш			_
	5 —				_																_
										Н								Н			_
	6 –			0.0	6.0	V 0 0	l D.		Cile	. ()	۸۷,	/ith Gı	o vol								_
				0.0	6.0	9.0	DI	OWN	SIII	y CL	AYV	/ith Gi	avei								_
	7																				
	8 –																				
	0																				_
	9 –				9.0	)'-10.	0' N	lo re	cov	ery											
	10																				
	10			0.0	10.	.0'-1	0.5'	Brov	wn fi	ne a	ınd r	nediur	n SA	ND							
	11			0.0	10.	.5'-1	3.0'	Brov	wn S	Silty (	CLA	with	Grav	⁄el							
													$\perp$				L	Ш			
	12																				

0.0

13.0'-15.0' Brown coarse and medium SAND with black Silty

Sand and organic material

13

14

SOIL BORING Boring Name	ne: VL		·SS-9													E	Env	vironm	ental S	ervice	ac is	[ ]
Client: Hess Corpo			Site Name: Port Reading Complex			,									North 32975	ing: 59.32	2					
Site Address 750 Cliff Roa		ort Re	eading, Middlesex Count	ty, New Jers	ey				_						Eastir 56513	ng: 35.04	1					
	Enviro		ental Technologies (SET					_	_					V			:xca\	/atior	n/ Dire	ect F	²usl	1
Start Date:8			Complete Date: 8/20/20									atthe	w Sr	nith							_	_
Boring Diam			Completion Depth: 11.					Dep	oth to	o Wa	ater	: 5.0'									_	_
Soil Boring			Samp	<u>'</u>	PID	-						SOI	L DI	ESC	RIPT	TION						
Lithology	(fee	t)	טו	Depth	רוח	$\vdash$	$\dashv$	_				$\overline{}$	$\neg$	$\overline{}$	$\overline{}$	$\overline{}$	$\overline{}$		$\overline{}$	op	一	4
	<u> </u>	<u> </u>	<u> </u>		10.1	0.0'-	-3.0'	Lig	ht b	rowr	n Sil	ty fin	e S/	AND	and	Grav	vel		十	+	+	-
	1												I	Į	I	I	I		4	工	I	
	<del> </del>	<del> </del>				$\sqcup$	4	_	Щ	Ш		$\dashv$	_	+	+	+	+	Щ	$\dashv$	+	+	_
	2	-	1		10.7	$\vdash$	+	$\dashv$	$\square$	$\square$		+	+	+	+	+	+	H	$\dashv$	+	+	-
	3	匸	VLRR-SS-9	(2.5-3.0)								二	土	土	丰	丰	丰	П		丰	#	
	<del> </del>	<del> </del>			3.1	3.0'-	5.0'	Brc	own	Silty	/ CL	AY w	ith C	∃rav	el	+	+	Щ	$\dashv$	+	+	_
-	4	-	<del> </del>		3.2	$\vdash$	+	$\dashv$	$\square$				+	+	+	+	+	H	$\dashv$	+	+	-
	5	$\vdash$			0.2	$\Box$	$\forall$	$\forall$	$\sqcap$			+	$\dagger$	$\dagger$	+	+	+	$\square$	$\dashv$	十	+	7
	_ 5	L			2.8	5.0'-	6.0'	GR	lVA	EL a	ınd k	orowr	ı Sil	ty Cl	ay	I	I		$\Box$	<b>エ</b>	I	
	6	-							Щ							<u> </u>	+	$\square$	$\vdash$	+	+	_
	+	$\vdash$	VLRR-SS-9	(6.5-7.0)	0.0	6.0'-	9.5	Dai	rk bi	rowr	า Sil	ty SA	.ND	with	Gra	vel	+	H	$\dashv$	+	+	$\dashv$
	7		VERTICO C	(0.0 7.0)			$\exists$					$\pm$	$\pm$	$\pm$	İ	士	士			士	士	
	8													$\prod$	$\perp$	$\perp$				7	7	
	+	╄				8.0'-	9.0'	Da	rk bi	rowr	า to	black	Silt	y CL	_AY v	with o	orgar	nic m	nateria	al	+	_
	9	$\vdash$			0.0	9.0'-	-11.(	ח' N	o re	COVE	erv	+	+	+	+	+	+	H	$\dashv$	+	+	
	10				0.0	0.0		7 14	010	COVC	эт у	1	$\pm$	$\pm$	$\pm$	$^{+}$	†_		士	士	$\pm$	
	_ 10													Т						$\Box$		

SOIL BORING LOG **Envirolrac** Boring Name: VLRR-SS-10 Permit No: NA Client: Site Name: Northing: Hess Corporation Port Reading Complex 629788.57 Site Address: Easting: 750 Cliff Road, Port Reading, Middlesex County, New Jersey 565155.29 Drilling Company: Method: Subsurface Environmental Technologies (SET) Vacuum Excavation Soil Logger: Ivan Pawlenko Boring Diameter: 2" Completion Depth: 5.0' Depth to Water: 4.5' Soil Boring Depth Samples SOIL DESCRIPTION Lithology (feet) ID PID Depth 0 0.0'-1.5' Medium brown Gravelly Sandy SILT 0.0 1 1.5'-3.0' Same with Concrete 2 3 VLRR-SS-10 (3.0-3.5)0.0 3.0'-3.5' Medium brown Gravelly Sandy SILT with concrete debris 0.0 4 3.5'-4.5' CONCRETE debris with Silt 0.0 4.5'-5.0' Brown coarse Gravelly SAND with trace Silt 5 5.0' Refusal

SOIL BORIN Boring Nam Permit No: N	e: VLRR	-SS-11													=n En	vironn	nental	Servic	ac			
Client:		Site Name:												hing								
Hess Corpor		Port Reading Complex	Κ											818.8	36							
Site Address		dia - Middella O												ting:	- 4							
		eading, Middlesex Cour	ity, New Jers	еу										173.	01							
Drilling Com			<b>-</b> '											hod:	_							
		ental Technologies (SET	,											uum	Exca	vatio	'n					
Start Date:8/							Soil L															
Boring Diam	eter: 2"	Completion Depth: 3.	0'				Depth	to V	Vate	er: No	ot En	cou	ntere	ed								
Soil Boring	Depth	Samples SOIL DESC											SCRIPTION									
Lithology	(feet)	ID	Depth PID										John 11011									
	_ 0 _																					
	0			0.3	0.0'	-2.0	Light	brov	vn S	iltv fi	ne S	ANE	) an	d Gra	avel							
				0.0					T	1						+	+		$\rightarrow$			
	1							+	+	-					-	+	+		_			
									_							┿	₩	$\Box$	_			
	_ 2 _			0.5																		
				2.2	2.0'	-3.0	Dark	brow	vn a	nd bl	ack \$	Siltv	fine	SAN	ID ar	nd Gr	avel					
	3	VLRR-SS-11	(2.5-3.0)						Ī			,				Ī						
					3.0'	Ref	usal -	Con	cret	e en	coun	tere	b									
								7			2 0.71					$\top$	$\top$		$\top$			

SOIL BORING LOG Envirolrac Boring Name: VLRR-SS-12 Permit No: NA Client: Site Name: Northing: Hess Corporation Port Reading Complex 629843.12 Site Address: Easting: 750 Cliff Road, Port Reading, Middlesex County, New Jersey 565191.48 Drilling Company: Method: Subsurface Environmental Technologies (SET) Vacuum Excavation/ Direct Push Soil Logger: Ivan Pawlenko Boring Diameter: 2" Completion Depth: 10.0' Depth to Water: 3.75' Soil Boring Depth Samples SOIL DESCRIPTION Lithology ID PID (feet) Depth 0 0.0 0.0'-0.33' Light to medium brown Sandy Gravelly SILT and debris (wood) 1 0.33'-3.75' Orange to brown Silty Gravelly CLAY with trace Sand and 13.9 debris (wood) VLRR-SS-12 (2.5-3.0)44.7 3 28.1 4 3.75'-4.25' Black Gravelly coarse SAND (Coal Slag) VLRR-SS-12 (3.75-4.25)1.7 5 6 6.5'-9.0' Coal sained black Gravelly coarse SAND 1.6 7 2.2 0.0 8 0.0 0.0 9 0.0 9.0'-10.0' Greenish brown Silty CLAY with organic material (Meadow Mat) 10

SOIL BORII Boring Nan Permit No: N	ne: VL	-	SS-13												E		vironn			ac
Client:			Site Name:											Nort	hing:					
Hess Corpo	ration		Port Reading Complex											6298	371.40	0				
Site Address	3:													East	ing:					
750 Cliff Ro	ad, Poi	t Re	ading, Middlesex County	y, New Jers	sey									5652	207.4	4				
Drilling Com	pany:													Meth	nod:					
Subsurface	Enviro	nme	ntal Technologies (SET)											Vacı	uum E	хса	vatio	n		
Start Date:8	/19/20 <sup>-</sup>	14	Complete Date: 8/19/20	14			5	Soil	Log	ger: I	Math	ew Sr	nith							
Boring Diam	eter: 2	2"	Completion Depth: 1.5'			Depth to Water: Not Encountered														
Soil Boring	Dep	th	Samp	les							_	OII	<b>-</b> 0/		TION					
Lithology	(fee	t)	ID	Depth	PID						5	OIL D	E50	CKIF	NOIT	ı				
	0		No sample collected		0.4	0.0	'-1.5'	Bro	wn	Silty fi	ne S	AND	with	orga	anic m	nate	rial			
								П												
	1																			
	_ 2					1.5	' Refu	ısal												
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SOIL BORI	ING LOG													<b>O_</b>								
Boring Nar	me: VLRR	k-SS-14														ac						
Permit No:	NA												Elivii	onmen	tal Servic	es						
Client:		Site Name:									North	ing:										
Hess Corpo	oration	Port Reading Complex	Χ								62990	0 <u>7.30</u>										
Site Addres	3S:	<del></del>									Eastir	ng:										
750 Cliff Ro	oad, Port R	Port Reading, Middlesex County, New Jersey												565243.94								
Drilling Con	npany:										Metho	od:										
Subsurface	Environm	ental Technologies (SET	Γ)								Vacu	um Ex	cava	ation								
Start Date:8	8/19/2014	Complete Date: 8/19/2	2014			Soil	Logg	er: M	athew	v Smith	)											
Boring Dian	neter: 2"	Completion Depth: 2.	5'		Depth to Water: Not Encountered																	
Soil Boring	Depth	Sam	nples						201	ı DEC	^DID1	TION.										
Lithology	(feet)	ID	Depth	PID					30i	LDES	DESCRIPTION											
	0 _																					
				1.6	0.0'-2.5	_ 5' Brc	own Si	ilty fin	e SAN	ND with	Grav	el and	d org	anic n	nateria	al						
	_ 1 _																					
				0.9																		
	2																					
		VLRR-SS-14	(2.0-2.5)																			
	3																					
'	3																					

SOIL BORING LOG Boring Name: VLRR-SS-15 Permit No: NA Client: Site Name: Northing: Hess Corporation Port Reading Complex 629585.32 Site Address: Easting: 750 Cliff Road, Port Reading, Middlesex County, New Jersey 565320.62 Drilling Company: Method: Subsurface Environmental Technologies (SET) Vacuum Excavation/ Direct Push Soil Logger: Matthew Smith Boring Diameter: 2" Completion Depth: 15.0' Depth to Water: 5.0' Soil Boring Depth Samples SOIL DESCRIPTION ID PID Lithology (feet) Depth 0 31.2 0.0'-1.0' Brown Silty fine SAND with Gravel 1 3.5 1.0'-3.0' Light brown silty CLAY with Gravel 2 12.8 VLRR-SS-15 (2.5-3.0)3 3.0'-6.0' No recovery 4 5 6 6.0'-10.0' Light brown Silty CLAY with Gravel and trace Sand 7 1.3 8 9 1.6 10 10.0'-11.0' No recovery 11 11.0'-12.5' Light brown Silty CLAY with Gravel 1.5 12 12.5'-14.5' No recovery 13 14 14.5'-15.0' Light brown Silty CLAY with Gravel and organic material 15

SOIL BORING LOG Boring Name: VLRR-SS-16 Permit No: NA Client: Site Name: Northing: Hess Corporation Port Reading Complex 629622.23 Site Address: Easting: 750 Cliff Road, Port Reading, Middlesex County, New Jersey 565348.21 Drilling Company: Method: Subsurface Environmental Technologies (SET) Vacuum Excavation/ Direct Push Start Date: 8/20/2014 Complete Date: 8/21/2014 Soil Logger: Matthew Smith Boring Diameter: 2" Completion Depth: 16.0' Depth to Water: 5.0' Soil Boring Depth Samples SOIL DESCRIPTION Lithology ID PID (feet) Depth 0 0.0 0.0'-1.0' Light brown Silty fine SAND and Gravel 1 750 1.0'-4.0' Brown fine and medium SAND with Gravel VLRR-SS-16 (1.5-2.0)2 365 3 4 45.5 4.0'-6.0' Light brown Silty fine SAND with Clay 5 6 6.0'-7.0' Light brown Silty fine SAND with Clay 31.9 7 7.0'-10.0' Brown medium and coarse SAND with Silt 18.5 8 9 10 10.0'-11.0' No recovery 11 11.0'-14.0' Brown medium and coarse SAND with Silt 19.8 12 13 14 14.0'-16.0' Dark brown SILT and CLAY with organic material 285 15 16

OI: 4.		Site Name:										N I a utla	:				
Client: Hess Corpo	ration	Port Reading Compl	0.4									North	iing: 46.35				
Site Addres		Fort Reading Compr	<u>6x</u>									Easti					
		Reading, Middlesex Co	unty, New Jers	ey									66.14				
Orilling Com		•	•	•								Meth	od:				
Subsurface	Environm	ental Technologies (SI	ΞT)									Vacu	um E	kcava	ation/H	land	Auge
		Complete Date: 8/21					il Log										
Boring Dian	neter: 2"	Completion Depth: 4	4.5'			De	pth to	) Wat	er: N	ot Er	ncou	ntere	k				
Soil Boring			mples						S	OIL	DES	CRIP.	TION				
Lithology	(feet)	ID	Depth	PID						-							
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	1													$\vdash$		+	
														$\vdash$	_	+	+
	2													ш	_	+	+-
				0.0	2.0'-	4.5' M	edium	n brov	vn S	Ity, S	andy	/, Gra	velly	CLAY		+	$\square$
	3																Ш
				54.5													
	4																
	4 –	VLRR-SS-17	(4.0-4.5)	106										П		$\top$	$\Box$
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SOIL BORI Boring Nan Permit No: I	ne: VLRR			E	Env	vironm	ro iental	Servic	ac									
Client:		Site Name:			Nort	hing:												
Hess Corpo		Port Reading Complex					1											
Site Addres																		
750 Cliff Ro	ad, Port R	eading, Middlesex Coun	ty, New Jers	еу								565	382.1	5				
Drilling Com												Met	nod:					
Subsurface	Environme	ental Technologies (SET	)									Vac	uum l	xca	vatio	n		
Start Date:8	3/20/2014	Complete Date: 8/20/2	Smit	:h														
Boring Dian	neter: 2"	Completion Depth: 5.0	)'															
Soil Boring Lithology	Depth (feet)	Sam	ples Depth	PID														
	0 —			Method: Vacuum Excavation  Soil Logger: Matthew Smith  Depth to Water: 4.5'														
	1			3.3														#
	2			44.7	2.0'-5	5.0' [	Dark I	browi	n Silt	y fine	SAN	D wit	h Cla	/ and	l Gra	vel		$\pm$
	3			7.8													$\vdash$	_
	4			7.0														
		VLRR-SS-18	(4.0-4.5)	5.4				-		_	+							+
	<del></del>				5.0' F	Refus	sal				+	Н		+			$\vdash$	+

SOIL BORING LOG Boring Name: VLRR-SS-19 Permit No: NA Client: Site Name: Northing: Hess Corporation Port Reading Complex 629694.90 Site Address: Easting: 750 Cliff Road, Port Reading, Middlesex County, New Jersey 565392.68 Drilling Company: Method: Subsurface Environmental Technologies (SET) Vacuum Excavation/ Direct Push Start Date:8/20/2014 Complete Date: 8/20/2014 Soil Logger: Ivan Pawlenko Boring Diameter: 2" Completion Depth: 15.0' Depth to Water: NM Soil Boring Depth Samples SOIL DESCRIPTION Lithology ID PID (feet) Depth 0 0.0 0.0'-1.0' Medium brown Gravelly, Sandy, SILT 1 1.0'-3.0' Medium brown Clayey, Silty GRAVEL 15.7 3 3.0'-5.0' Dark brown to black Gravelly Silty Sandy CLAY (Coal Slag) 23.1 149 4 VLRR-SS-19 (4.0-4.5)297 5 6.3 5.0'-5.5' Black Sandy Silty GRAVEL (Coal Slag) VLRR-SS-19 5.5'-6.0' Black Silty GRAVEL (Coal Slag) (5.5-6.0)6.6 6 7 8 9 0.0 9.0'-12.5' Medium brown Gravelly, medium to coarse SAND with trace Silt 10 11 12 12.5'-13.5' Medium brown Gravelly Sandy CLAY 0.0 13 13.5'-15.0' Grey CLAY with yellow fibers (Meadow Mat) 0.0 14 15

SOIL BORING LOG Boring Name: VLRR-SS-20 Permit No: NA Client: Site Name: Northing: Hess Corporation Port Reading Complex 629729.51 Site Address: Easting: 565414.54 750 Cliff Road, Port Reading, Middlesex County, New Jersey Drilling Company: Method: Subsurface Environmental Technologies (SET) Vacuum Excavation/ Direct Push Soil Logger: Matthew Smith Start Date:8/20/2014 Complete Date: 8/20/2014 Boring Diameter: 2" Completion Depth: 11.0' Depth to Water: 3.5' Soil Boring Depth Samples SOIL DESCRIPTION Lithology ID PID (feet) Depth 0 0.0'-1.5' Light brown Silty fine SAND and Gravel 0.0 1 7.3 1.5'-3.0' Dark brown Silty fine SAND with Gravel, Cobble and 2 Concrete VLRR-SS-20 (2.5-3.0)3 0.0 3.0'-4.0' Dark brown to black Silty fine SAND and Gravel 4 4.0'-6.0' Dark brown to black fine and medium SAND with Silt, 0.0 Clay, and Gravel 5 6 6.0'-10.0' Brown fine and medium SAND with Clay and trace Gravel 7 8 9 10 0.0 10.0'-11.0' Dark brown Silt Clay with organic material 11

SOIL BORI Boring Nar Permit No: I	ne: VLR	R-SS	S-21														E	Envi	ronm	ental	Service	a	c
Client:		S	ite Name:												Nor	thin	g:						
Hess Corpo	ration	Ρ	ort Reading Complex	[											629	773	.41						
Site Addres															Eas	_							
750 Cliff Ro	ad, Port F	Read	ding, Middlesex Coun	ty, New Jers	ey										565	437	.42						
Drilling Con Subsurface		nenta	al Technologies (SET	·)											Met Vac		-	cav	atio	า			
Start Date:8	3/20/2014	С	complete Date: 8/20/2	awle	nko	)																	
Boring Dian	neter: 2"	С	completion Depth: 5.7	: 3.5	j'																		
Soil Boring	Depth	4 Complete Date: 8/20/2014 Soil Logger: Ivan Pawlenko  " Completion Depth: 5.75' Depth to Water: 3.5'  Samples SOIL DESCRIPTION																					
Lithology	(feet)		ID	Depth	Soil Logger: Ivan Pawlenko  Depth to Water: 3.5'  epth PID SOIL DESCRIPTION																		
	0			8/20/2014 Soil Logger: Ivan Pawlenko th: 5.75' Depth to Water: 3.5' Samples SOIL DESCRIPTION																			
					0.0	0.0	-1.0	Me	diur	n br	own	Gra	velly	/, S	and	y SII	LT						
	1					ļ.,														_			
					0.0	1.0	-3.0	Me	diur	n br	own	Gra	velly	/ Sil	Ity C	LAY	wit	th tra	ace	San	d		
	2							and	d Co	oncr	ete d	debr	is										
	-																						
	3 -	1			0.0	2.0	4.0	Dic	ok (	Cil+v		V	/ith o	rao	nio r	moto	rial						
					0.0	3.0	-4.0	Dia	ICK 3	SIILY	CLF	AT W	illi O	rga	nic i	пац	mai						
	4	_																			Ш		
					0.0	4.0	-4.5	Bla	ick (	Clay	ey, S	Sand	dy, S	ilty	GR/	٩VE	L						
					0.0	4.5	-5.7	5' G	rey	to b	lack	Gra	velly	, Si	ilty, o	coar	se S	SAN	D w	ith tı	ace	Cla	У
	5 –		VLRR-SS-21	(5.25-5.75)	0.0								Í		,								_
				, -,		5.7	5' Re	efus	al														

SOIL BORING LOG Boring Name: VLRR-SS-22 Permit No: NA Client: Site Name: Northing: Hess Corporation Port Reading Complex 629418.92 Site Address: Easting: 750 Cliff Road, Port Reading, Middlesex County, New Jersey 565568.89 Drilling Company: Method: Subsurface Environmental Technologies (SET) Vacuum Excavation/ Direct Push Soil Logger: Matthew Smith Boring Diameter: 2" Completion Depth: 16.0' Depth to Water: 4.5' Soil Boring Depth Samples SOIL DESCRIPTION Lithology ID PID (feet) Depth 0 3.0 0.0'-1.0' Dark brown Silty fine SAND with Gravel and organic material 1 43.6 1.0'-10.5' Dark brown Silty fine SAND with Gravel VLRR-SS-22 (1.5-2.0)2 8.2 3 4 3.1 5 2.2 6 7.9 7 8 9 10 10.5'-11.0' No recovery 11 11.0'-14.0' Dark brown Silty fine SAND with Gravel 6.3 12 13 14 14.0'-16.0' Dark brown to black Silty CLAY with organic material 18.4 15 16

SOIL BORING LOG Boring Name: VLRR-SS-23 Permit No: NA Client: Site Name: Northing: Hess Corporation Port Reading Complex 629439.12 Site Address: Easting: 750 Cliff Road, Port Reading, Middlesex County, New Jersey 565585.70 Drilling Company: Method: Subsurface Environmental Technologies (SET) Vacuum Excavation/ Direct Push Soil Logger: Matthew Smith Boring Diameter: 2" Completion Depth: 16.0' Depth to Water: 5.0' Soil Boring Depth Samples SOIL DESCRIPTION Lithology ID PID (feet) Depth 0 6.5 0.0'-1.0' Light brown Silty fine SAND with Gravel and organic material 1 6.1 1.0'-2.0' Light brown Silty SAND with Clay and Gravel 2 2.0'-6.0' Dark brown Silty SAND with Gravel 63.2 VLRR-SS-22 (2.5-3.0)3 17.7 4 10.6 5 5.3 6 6.0'-14.0' Brown to dark brown Silty SAND with Clay, medium to coarse Sand and Gravel 7 8 9 10 11 2.5 12 13 14 14.0'-16.0' Dark brown to black Silty CLAY with organic material 2.5 15 16

SOIL BORING LOG Boring Name: VLRR-SS-24 Permit No: NA Client: Site Name: Northing: Hess Corporation Port Reading Complex 629471.21 Site Address: Easting: 565601.84 750 Cliff Road, Port Reading, Middlesex County, New Jersey Drilling Company: Method: Subsurface Environmental Technologies (SET) Vacuum Excavation/ Direct Push Soil Logger: Matthew Smith Boring Diameter: 2" Completion Depth: 16.0' Depth to Water: 5.0' Soil Boring Depth Samples SOIL DESCRIPTION Lithology ID PID (feet) Depth 0 7.5 0.0'-1.0' Light brown Silty fine SAND with Gravel and organic material 1 2.6 1.0'-2.0' Light brown Silty fine SAND with Gravel 2 2.0'-6.0' Brown fine to coarse SAND with Silt 3.9 3 4 8.7 VLRR-SS-24 (4.5-5.0)5 4.7 6 6.0'-10.0' Brown fine to medium and coarse SAND with Silt 7 8 9 10 10.0'-11.0' No recovery 11 4.4 12 12.5'-15.0' Dark brown Silty CLAY with organic material 83.4 13 14 15 15.0'-16.0' No recovery 16

SOIL BORII Boring Nan Permit No: N	ne: VLRR	-SS-25					E	nvironn	nental	Servic	ac							
Client:		Site Name:			Nortl	_												
Hess Corpo		Port Reading Complex	(									6294		91				
Site Address												East	_					J
750 Cliff Roa	ad, Port R	eading, Middlesex Coun	ity, New Jers	sey							;	5656	20.9	94				
<b>Drilling Com</b>	pany:											Meth	od:					
Subsurface	Environme	ental Technologies (SET	Complete Date: 8/21/2014 Soil Logger: Ivan Pav															
Start Date:8	/21/2014	Complete Date: 8/21/2	2014	enko														
Boring Diam	neter: 2"	Completion Depth: 3.5	ste Date: 8/21/2014 Soil Logger: Ivan Pawle stion Depth: 3.5' Depth to Water: Not End															
Soil Boring	Depth	Sam	ples	DESC	חוחי	TIO	N I											
Lithology	(feet)	ID	Depth	JIL L	JE3(	KIP	ПО	IN										
	0																	
	0 -			0.0	0.0'-2	2.0'	Mediu	m br	own Sa	ındy,	Gra	/elly	SIL	Т				
	1 –														$\top$			
	0																	
	2 —			0.0	2.0'-3	3.5'	Dark g	rey t	to brow	n Cla	ayey,	San	dy, (	Grav	elly S	iLT	with	
	3						Concre								Ť			
	_ 3 _	VLRR-SS-25	(3.0-3.5)															
					3.5' F	Refu	usal											

SOIL BORI Boring Nar Permit No: I	ne: VLRR	-SS-26													E	<b>:</b> n	vironm	ental	Servic	ac
Client:	ame: VLRR-SS-26 :: NA  Site Name: Port Reading Complex  ses: Road, Port Reading, Middlesex County, New Jersey  sepany: see Environmental Technologies (SET) se8/21/2014 Complete Date: 8/21/2014 Soil Logger: Matameter: 2" Completion Depth: 4.5' Depth to Water: In the second of the se														ning:					
Hess Corpo	ration	Port Reading Complex											(	6295	28.3	5				
Site Addres	S:													Easti	ng:					
750 Cliff Ro	ad, Port R	eading, Middlesex Count	y, New Jers	ey										5656	31.9	9				
<b>Drilling Com</b>	npany:													Meth	od:					
Subsurface	Environm	ental Technologies (SET	)										١	Vacu	um E	Exca	vatior	า		
Start Date:8	3/21/2014	Complete Date: 8/21/20	olete Date: 8/21/2014 Soil Logger: Matthew oletion Depth: 4.5' Depth to Water: Not E																	
Boring Dian	neter: 2"	Completion Depth: 4.5	olete Date: 8/21/2014 Soil Logger: Matthe oletion Depth: 4.5' Depth to Water: Not Samples																	
Soil Boring	•		re Date: 8/21/2014 Soil Logger: Matthew Depth: 4.5'  Samples ID Depth PID Soil Logger: Matthew Depth to Water: Not E																	
Lithology	(feet)	ID	Depth	PID						_										
	<u> </u>			0.0	0.0	'-1.0'	Lig	ht b	rown	Silt	y fin	e SA	۱ND	) with	orga	anic	mate	rial (	roots	5)
	1																			
	' '			1.2	1.0	-2.0'	Lig	ht b	rown	Silt	y fin	e SA	AND	with	Gra	vel				
	2																			
				31.9	2.0	'-4.0'	Daı	rk bı	rown	fine	Silt	y SA	ND	with	Gra	vel				
	3 –			48.9																
	4																			
		VLRR-SS-26	(4.0-4.5)									4		4		$\perp$				
	5				4.5	Ref	usal					_	4			_				
	1																			

SOIL BORING LOG Envirolrac Boring Name: VLRR-SS-27 Permit No: NA Client: Site Name: Northing: Hess Corporation Port Reading Complex 629566.81 Site Address: Easting: 750 Cliff Road, Port Reading, Middlesex County, New Jersey 565656.47 Drilling Company: Method: Subsurface Environmental Technologies (SET) Vacuum Excavation/ Direct Push Start Date: 8/21/2014 Complete Date: 8/21/2014 Soil Logger: Ivan Pawlenko Boring Diameter: 2" Completion Depth: 10.0' Depth to Water: 4.0' Soil Boring Depth Samples SOIL DESCRIPTION Lithology ID PID (feet) Depth 0 0.0 0.0'-1.0' Medium brown Gravelly, Sandy SILT 1 1.0'-3.0' Medium brown Gravelly, Sandy SILT with Concrete debris and Cobbles 3 3.0'-4.5' Black stained Cobbley, Sandy CLAY with trace Silt VLRR-SS-27 4.6 (3.0-3.5)4 4.5'-8.0' Grey to brown Gravelly, Clayey, SAND with trace Silt 0.0 5 6 7 8 8.0'-8.5' Grey to brown Silty CLAY 0.0 8.5'-9.75' Grey to brown Sandy Silty CLAY 9 9.75'-10.0' Greenish brown Silty CLAY with organic material 0.0 10 (Meadow Mat)

SOIL BORING LOG Boring Name: VLRR-SS-28 Permit No: NA Client: Site Name: Northing: Hess Corporation Port Reading Complex 629586.34 Site Address: Easting: 565670.98 750 Cliff Road, Port Reading, Middlesex County, New Jersey Drilling Company: Method: Subsurface Environmental Technologies (SET) Vacuum Excavation/ Direct Push Start Date: 8/21/2014 Complete Date: 8/21/2014 Soil Logger: Ivan Pawlenko Boring Diameter: 2" Completion Depth: 10.0' Depth to Water: 3.25' Soil Boring Depth Samples SOIL DESCRIPTION Lithology ID PID (feet) Depth 0 0.0'-1.5' Medium brown Sandy, Silty, Gravelly, CLAY with Asphalt 0.0 and Concrete debris 1 1.5'-2.0' Medium brown Clayey, Silty, GRAVEL with trace Sand 0.0 and Cobbles 2.0'-4.5' Medium brown Silty, Sandy, CLAY with trace Gravel VLRR-SS-28 (2.75 - 3.25)0.0 3 4 0.0 4.5'-6.0' Black brown Sandy, Silty, GRAVEL 5 6 0.0 6.0'-8.5' Grey to brown Gravelly coarse SAND with trace Silt 7 8 8.5'-10.0' Grey to brown Clayey, Gravelly, coarse SAND with trace Silt 0.0 9 10

SOIL BORING LOG Boring Name: VLRR-SS-29 Permit No: NA Client: Site Name: Northing: Hess Corporation Port Reading Complex 629408.29 Site Address: Easting: 750 Cliff Road, Port Reading, Middlesex County, New Jersey 565612.94 Drilling Company: Method: Subsurface Environmental Technologies (SET) Vacuum Excavation/ Direct Push Soil Logger: Judith Kirkbride Boring Diameter: 2" Completion Depth: 13.0' Depth to Water: 4.5' Soil Boring Depth Samples SOIL DESCRIPTION Lithology ID PID (feet) Depth 0 0.0'-0.5' Dark brown organic Sandy SILT 0.5'-3.0' Light brown Sandy SILT with fill (brick) 1 51.2 3 3.0'-6.0' Black Sandy SILT wih Gravel VLRR-SS-29 167 (3.0-3.5)4 123 5 58 6 6.0'-9.5' Brown Sandy FILL with fine Gravel 7 8 1.0 0.0 9 8.0 0.0 9.5'-11.5' Brown Silty Gravelly FILL 10 11 11.5'-12.5' Dark brown CLAY with Gravel 0.0 12 12.5'-13.0' Dark brown CLAY with organic material (Meadow Mat) 0.0 13

SOIL BORING LOG Envirolrac Boring Name: VLRR-SS-30 Permit No: NA Client: Site Name: Northing: Hess Corporation Port Reading Complex 629375.06 Site Address: Easting: 750 Cliff Road, Port Reading, Middlesex County, New Jersey 565754.46 Drilling Company: Method: Subsurface Environmental Technologies (SET) Hand Auger Soil Logger: Sarah Dyson Boring Diameter: 2" Completion Depth: 5.5' Depth to Water: Not Encountered Soil Boring Depth Samples SOIL DESCRIPTION Lithology (feet) ID PID Depth 0 0.0'-2.5' Black SAND and Gravel 0.0 1 0.0 2.5'-4.5' Black and brown Gravel with SAND and fill material 0.0 3 VLRR-SS-30 (3.0-3.5)(metal fragments) 4 4.5'-5.0' Black and brown Gravel with SAND, fill material (metal 0.0 5 fragments) and orange to brown Sand 5.0'-5.5' Grey SILT with oranic material (Meadow Mat) 6

SOIL BORING Boring Name	ne: VLRR	-SS-31												E	nv	Air.	<b>'0</b>	ra	กี
Permit No: N	۱A														Envir	ronme	ntal Ser	vices	
Client:		Site Name:											Northi	ng:					
Hess Corpo	ration	Port Reading Complex											62942	3.00					
Site Address													Eastin	_					
		eading, Middlesex County	y, New Jers	ey									56581						
Drilling Com													Metho		-				
		ental Technologies (SET)											Hand	Auge	r				
		Complete Date: 8/20/20						Logg			_								
Boring Diam	eter: 2"	Completion Depth: 7.0'					Dep	th to	Wat	er: N	ot Er	coui	ntered						
Soil Boring	Depth	Samp								S	OII I	DESC	CRIPT	ION					
Lithology	(feet)	ID	Depth	PID							O1L 1	) L O	J1 (11 1	1011					
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	_ 0 _				0.0'-	-0.5'	Dai	k are	ev ar	d bla	ck G	rave	lly SA	NDS					
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	1 -				0.5						CK G	lave	ily SA	ND3	WILII	DIOW	/11	+	+
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	2																		
	-				2.0'	-3.5'	Ora	angis	h bro	wn n	nediu	ım S	AND						
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				7.5															
	5			1.6															
	_ 1 _	VLRR-SS-31	(5.0-5.5)																
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Boring Name: MVRU-SS-1



Permit No: NA

Client: Site Name: Northing: 628617.92 Hess Corporation Port Reading Complex Easting: Site Address: 564470.49 Method:

750 Cliff Road, Port Reading, New Jersey Drilling Company: Subsurface Environmental Technologies (SET) Vacuum Excavation/Direct Push Start Date: 8/27/14 Complete Date: 8/27/14 Soil Logger: Matthew Smith Boring Diameter: 2" Completion Depth: 16.0' Depth to Water: 6.5' Soil Boring Samples Depth SOIL DESCRIPTION Lithology (feet) ID Depth PID 0 0.0'-0.5' ROADSTONE MVRU-SS-1 (0.5-1.0)590 0.5'-6.0' Brown Silty fine SAND and Gravel 1 61.4 2 1.1 8.0 4 0.0 5 6 6.0'-9.0' Brown Silty fine to medium SAND with Gravel 7 8 9.0'-11.0' No recovery 10 11 11.0'-12.5' Brown Silty fine to medium SAND with Gravel 12 10.1 | 12.5'-14.0' Grey fine to medium SAND with Gravel 13 14 42.8 14.0'-16.0' Dark brown to black Silty CLAY with organic material 15 16

Boring Name: MVRU-SS-2



Permit No: NA

Client: Site Name: Northing:

Hess Corporation Port Reading Complex 628638.76

Site Address: Easting:
750 Cliff Road, Port Reading, New Jersey 564513.23

Drilling Company: Method:
Subsurface Environmental Technologies (SET) Vacuum Excavation/Direct Push

Start Date: 8/27/14 Complete Date: 8/27/14 Soil Logger: Judith Kirkbride

Boring Diam	neter: 2"	Completion Depth:	16.0'				Dep	oth to	o W	ater:	7.0	'									
Soil Boring	Depth		ples	-							SC	DIL [	DES	CRI	PTI	NC					
Lithology	(feet)	ID	Depth	PID								,, <u> </u>		O. (.)		J. 1					
	0																				
					0.0'-																
	1	MVRU-SS-2	(0.5-1.0)	109	0.1'-	2.5'	Re	ddis	h br	own	Silt	y coa	arse	SA	ND '	with	Gra	vel			
	2			97.1																	
	з			28.1	2.5'-			ddis	h br	own	Silt	y coa	arse	SA	ND '	with	Gra	vel a	and	dark	
					grey																
	4			26.0	3.0'-	8.0'	Re	ddis	h br	own	Silt	y SA	ND	with	Gra	avel					
						_															
	5			11.5	$\vdash$																
	6			23.4																	
	7			8.4																	
	- 8			0.1																	
					8.0'-	12.0	)' G	rey t	o br	rown	coa	ırse	SAN	1D							
	9 —			12.6																	
	10			10.3																	
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	11			11.6																	
				0.5																	
	12			8.5	12.0	1 16	۰ ۱	)orl	bro		~I ^	V (N	lood	low	Mot	\					
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	15			112		$\dashv$															
				184	$\Box$																
	16			104		-															
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16



Boring Nai Permit No:		J-SS-3														E	Envi	ronm	ental S	ervice	ac
Client:	INA	Site Name:												No	rthin	α·					
Hess Corpo	oration		te Name: ort Reading Complex  ITechnologies (SET) omplete Date: 8/27/14 ompletion Depth: 16.0'  Samples ID Depth PID  0.0'-0.2 15.1 0.25'-2 4.0 0.1 2.0'-5.0 0.5 5.0'-6.0 6.0'-7.0 0.6 7.0'-10												3593	-					
Site Addres		Fort Reading Con	Site Name: Port Reading Complex  ding, New Jersey  al Technologies (SET) Complete Date: 8/27/14  Soil Logger: Matthe Completion Depth: 16.0'  Depth to Water: 5.5  Samples  ID  Depth PID  0.0'-0.25' ROADSTONE  15.1  0.25'-2.0' Brown Silty fine SA  4.0  0.1  2.0'-5.0' Brown Silty fine SA  0.4  0.5  0.5  5.0'-6.0' Dark brown Silty fine  6.0'-7.0' Black Silty CLAY ar  0.6  7.0'-10.0' Light brown medication of the silt of the s						sting												
		Paading New Jersey													1549						
		reading, riew Jersey	te Name: ort Reading Complex  ITechnologies (SET)  omplete Date: 8/27/14  Soil Logger: Matthew Smith ompletion Depth: 16.0'  Depth to Water: 5.5'  Samples  ID Depth PID  0.0'-0.25' ROADSTONE  15.1 0.25'-2.0' Brown Silty fine SAND with 4.0  0.1 2.0'-5.0' Brown Silty fine SAND with  0.5 5.0'-6.0' Dark brown Silty fine SAND  6.0'-7.0' Black Silty CLAY and Grave  0.6 7.0'-10.0' Light brown medium to coal  11.0'-13.5' Light brown medium to coal					thod													
Drilling Cor		antal Tachnalagias (	te Name: ort Reading Complex  Technologies (SET)  Implete Date: 8/27/14  Indicate the properties of th							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ation	n/Dire	ot Di	ıob							
Start Date:			e Name: rt Reading Complex  rig, New Jersey  Technologies (SET)  Implete Date: 8/27/14  Impletion Depth: 16.0'  Depth to Water: 5.5'  Samples  ID Depth PID  O.0'-0.25' ROADSTONE  15.1 0.25'-2.0' Brown Silty fine SAND with 4.0 0.1 2.0'-5.0' Brown Silty fine SAND with 0.4 0.5 5.0'-6.0' Dark brown Silty fine SAND  O.5 5.0'-6.0' Dark brown medium to continue to contin						Juui		cav	atioi	i/Dire	CLFU	1511						
		·	e Name: It Reading Complex  g, New Jersey  Technologies (SET) Implete Date: 8/27/14 Impletion Depth: 16.0' ID Depth PID  Output PID  Outpu					HIIII	1												
Boring Diar			Reading Complex  New Jersey  Pechnologies (SET)  Iplete Date: 8/27/14  Soil Logger: Matthew Sr  Depth to Water: 5.5'  Samples  ID  Depth  Depth  PID  O.0'-0.25' ROADSTONE  15.1  0.25'-2.0' Brown Silty fine SAND  4.0  0.1  2.0'-5.0' Brown Silty fine SAND w  0.4  0.5  0.5  5.0'-6.0' Dark brown Silty fine SA  6.0'-7.0' Black Silty CLAY and Gr  0.6  7.0'-10.0' Light brown medium to																		
Soil Boring	-		lew Jersey  Innologies (SET)  Sete Date: 8/27/14  Soil Logger: Matthew Smither Smith (Section Depth: 16.0)  Samples  ID Depth PID  O.0'-0.25' ROADSTONE  15.1 0.25'-2.0' Brown Silty fine SAND with (Section Depth: 16.0)  O.1 2.0'-5.0' Brown Silty fine SAND with (Section Depth: 16.0)  O.25'-2.0' Brown Silty fine SAND with (Section Depth: 16.0)  O.4 O.5 Soil Logger: Matthew Smither (Section Depth: 16.0)  O.0'-0.25' ROADSTONE  O.1 0.25'-2.0' Brown Silty fine SAND with (Section Depth: 16.0)  O.2 O'-5.0' Brown Silty fine SAND with (Section Depth: 16.0)  O.5 Soil Logger: Matthew Smither (Section Depth: 16.0)  O.6 O'-1.0' Brown Silty fine SAND with (Section Depth: 16.0)  O.7 O'-10.0' Light brown medium to compare the compare								DES	CRI	PTI	NC							
Lithology	(feet)	ID	Depth	PID																	
	o _									~ –											
			hnologies (SET)  ete Date: 8/27/14  etion Depth: 16.0'  Samples  ID  Depth  PID  0.0'-0.25' ROADSTONE  15.1  0.25'-2.0' Brown Silty fine SANE  0.4  0.5  0.5  0.5  0.6  0.7-7.0' Black Silty CLAY and  0.6  7.0'-10.0' Light brown medium  10.0'-11.0' No recovery																		
	1 -		rechnologies (SET) Inplete Date: 8/27/14 Soil Logger: Matthew S Inpletion Depth: 16.0' Depth to Water: 5.5'  Samples ID Depth PID  0.0'-0.25' ROADSTONE 15.1 0.25'-2.0' Brown Silty fine SAND 4.0  0.1 2.0'-5.0' Brown Silty fine SAND 0.5  0.5 5.0'-6.0' Dark brown Silty fine SA  6.0'-7.0' Black Silty CLAY and G  0.6 7.0'-10.0' Light brown medium to select the selection of the selec							) wit	h Gi	rave	l				-				
				4.0																-	
	2													_	<u> </u>		<u> </u>			-	_
				0.1	2.0'-	-5.0'	Bro	wn	Silty	fine	SA	ND '	with	Gra	vel	and	cob	ble			
	3 -																			-	
				0.4																	-
	4 -																				_
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	5											_									_
				0.5	5.0'-	6.0'	Dar	k bı	rown	Silt	y fin	e S	AND	and	d Gr	avel					-
	6 -																				-
					6.0'-	-7.0'	Bla	ck S	Silty (	CLA	Y aı	nd G	irave	el							_
	7 -																				_
				0.6	7.0'-	-10.0	O' Li	ght	brow	n m	ediu	ım to	o co	arse	SA	ND	with	Gra	vel		_
	8 -																				_
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	9																			-	_
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	11																				
					11.0	)'-13	.5' L	_igh	t bro	wn i	med	ium	to c	oars	se S	AND	) wit	h Gr	avel	+	
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	13	_																		+	
		MVRU-SS-3	(13.0-13.5)																	+	+
	14		ing, New Jersey  Al Technologies (SET)  Complete Date: 8/27/14  Completion Depth: 16.0'  Depth to Water: 5.5'  Samples  ID Depth PID  0.0'-0.25' ROADSTONE  15.1 0.25'-2.0' Brown Silty fine SAND with 4.0 0.1 2.0'-5.0' Brown Silty fine SAND with 0.4 0.5  0.5 5.0'-6.0' Dark brown Silty fine SAND 6.0'-7.0' Black Silty CLAY and Grave 0.6 7.0'-10.0' Light brown medium to co					h tra	ice (	Grav	el										

90.4 14.0'-16.0' Dark grey to black Silty CLAY with organic material

(Meadow Mat)

Boring Name: MVRU-SS-4



Permit No: NA

Client:	Site Name:	Northing:
Hess Corporation	Port Reading Complex	628554.41
Site Address:		Easting:
750 Cliff Road, Port Re	ading, New Jersey	564550.85
Drilling Company:		Method:
Subsurface Environme	ntal Technologies (SET)	Vacuum Excavation/Direct Push

750 Cliff Ro	ad, Port Re	eading, New Jersey											5645	550	.85						
Drilling Com	npany:												Meth	nod	:						
Subsurface	Environme	ental Technologies (S	SET)										Vacı	Jun	า Ex	cava	ation	n/Dir	ect F	ush	1
Start Date:	8/26/14	Complete Date: 8/	26/14			Sc	oil Lo	gger	: Ма	atthe	w S	mith	)								
Boring Dian	neter: 2"	Completion Depth:	16.0'			De	epth t	o W	ater:	9.0'											
Soil Boring	Depth	Sar	mples							90	и г	)ES	CRIF	TIC	ואכ						
Lithology	(feet)	ID	Depth	PID						50	/	JLO	CIVII	110	<i>)</i> 1 1						
	0																				
	0			0.0	0.0'-	0.5' R	OAD	STO	NE												
	1				0.5'-	6.0' B	rown	Silty	fine	AS	ND '	with	Grav	⁄el							
				25.1																	
	2																				
				20.4																	
	2																				
	3 —			53.8																	
	4			3.8																	
	_																				
	5			6.4																	
	6 —			10.1	6.0'-	9.0' B	rown	fine	to m	nediu	ım S	SAN	D wit	h G	irave	el					
							Ī														
	7																				
	- 8 -																				
		MVRU-SS-4	(8.5-9.0)																		
	9 —	vite ee i	(0.0 0.0)		9 0'-	11.0'	Vo re	COVE	erv												
					0.0	11.0	1010		J. y												
	10																				
							+														
	11 —			0.4	11 (	'-13.5	Brov	vn fi	ne tr	n me	diur	n S/	ND.	with	Gr	avel	and	l Cilt			
				0.4	11.0	13.3	Diov	VIII III		inc	ului		(IND	VVILI	l Oil	avci	and	, Ont			
	12 —				Н	_				$\vdash$											
	13				H					$\vdash$											
				45.0	12 5	'-15.5	Dari	hro	WAY C	Silty	CI /	\ <b>V</b> \	ith o	rac	nic r	mata	arial	(1)40	240	A/ N.A.	o+)
	14			40.0	13.5	10.0	Dail	טוט	VVII	Jiity	OLF	NI W	1111 0	yal	ne f	nate	ilal	(IVIE	auov	v iVlč	al)
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					15.5	1.40.0	NI-			$\vdash$							$\vdash$		$\vdash$		
	16				15.5	'-16.0	NO r	ecov	very	$\vdash$							$\vdash$				
	$\vdash$						+										$\vdash$				
		I		l	1											1			/ I		

Boring Name: MVRU-SS-5



Permit No: NA

Client: Site Name: Northing: 628529.29 Hess Corporation Port Reading Complex Site Address: Easting: 564504.07 Method:

750 Cliff Road, Port Reading, New Jersey Drilling Company: Subsurface Environmental Technologies (SET) Vacuum Excavation/Direct Push Start Date: 8/26/14 Complete Date: 8/26/14 Soil Logger: Judith Kirkbride Boring Diameter: 2" Completion Depth: 16.0' Depth to Water: 9.0' Soil Boring Samples Depth SOIL DESCRIPTION Lithology (feet) ID Depth PID 0 0.0'-0.5' ROADSTONE 0.5'-1.0' Reddish brown SAND 1 1.0'-1.5' SILT with Gravel 1.5'-3.5' Reddish brown Silty SAND with Gravel 2 4.8 3 3.5'-8.0' Reddish brown Clayey SAND with Gravel 7.3 4 7.3 5 7.2 6 0.1 7 8 0.0 8.0'-9.0' Dark grey CLAY 9.0'-11.0' Brown Silty coarse SAND MVRU-SS-5 (9.0-9.5)5.2 9.0 10 9.0 11 11.0'-16.0' Brown coarse SAND with fine to medium Gravel 3.0 12 5.5 13 14 5.5 15 0.1 16



Boring Na	ame: I	Site Name:   Northing: 628554.41   Easting:   Seath Solution   Port Reading Complex   Easting:   Seath Solution   Seath Sol						-															
Permit No	: NA																	Env	ironm	iental	Servic	ces	
Client:			Site Name:									Northing: 628554.41  Easting: 564550.85  Method: Vacuum Excavation Matthew Smith and Judith Kirkbride r: 7.0'  SOIL DESCRIPTION  E											
Hess Corp	ooratio	n	Site Name:					3554	.41														
Site Addre	ess:														Eas	sting	:						
750 Cliff F	Road,	Port Re	eading, New Jersey												564	550	.85						
Drilling Co	mpan	ıy:													Met	thod	:						
Subsurfac	e Env	ironme	ental Technologies (S	SET)											Vac	cuun	n Ex	cav	atior	n/Dir	ect F	Push	
Start Date	: 8/27	/14	Complete Date: 8/	/27/14				Soil	Log	ggei	r: M	atthe	w S	mith	an	d Ju	dith	Kirk	drid	е			
Boring Dia	amete	r: 2"	Completion Depth:	: 16.0'				Dep	oth t	o W	ater	: 7.0	'										
Soil Borin	g [	Pepth	Site Name:					CRI	PTIO	NC													
Lithology	/ (	feet)	ID	Depth	PID																		
		0 —																					
						0.0'-	0.2	5' R	OAE	DST	ONE												
		1 —			43.9	0.25	5'-2.0	0' Bı	rowr	n Sil	ty fir	ne S.	AND	with	ı Gr	ave							
					19.0																	_	_
		2																					_
					2.3	2.0'-	4.0'	' Da	rk bı	rowi	n Sil	ty fin	e SA	AND			_					_	_
		з —	_				_															_	_
					503																		_
		4 —						_									_						_
						4.0'-	-6.5'	Da	rk bı	rowi	n me	diur	n to	coar	se (	SAN	D w	ith (	Grav	el		_	_
		5 —			916																	_	_
					4.070																	_	_
		6 —			1,672	C 51	7.0	0			- 4:	-1											_
					4 440	6.5	-7.0	Οιξ	janii	C III	aten	aı										$\dashv$	_
		7 —			1,113	7 O'	12 (	ח' ח	ork l	brov	vn m	odii	ım ta		rco	. C A	ND.	with	Gra	wol			
			M//DILSS 6	(7.5.9.0)	2 020	7.0	-13.0	0 0.	aiki	DIOV	VII II	leuit	1111 ((	COa	1136	; SA	ND	vvitii	Gia	ivei			_
		8 —	WVK0-33-0	(7.5-6.0)	2,029																		
		9 —																					
					74.1																		_
		10 —																					_
		44			74.1																		
		11																					
		10			162																		
		12																					
		13			63.9																		
		13			30.0	13.0	)'-13	3.5' [	Dark	bro	own	fine	SAN	ID									
		14 —			30.5	13.5	5'-15	5.5' [	Dark	bro	own	Silty	CLA	Y wi	th c	orga	nic ı	mate	erial	(Me	adov	v Ma	t)
					36.6	Ш																	
		15 —																					
					123																		

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<b>Boring</b> Permit I			FP-S	SS-1															E	Env	ironm	CO ental	Servi	ces	C
Client:				Site	e Name:											Ν	lorthi	ng:							
Hess C	orpo	ratio	n	Po	rt Reading	Complex												2881	-						
Site Ad											Depth to Water: 3						E	astin	g:						
750 Clif	ff Ro	ad,	Port	Readi	ng, Middle	sex Count	ty, New Jers	sey				SPHALT  own Silty fine SA  ark brown to blace  own and dark brown and dark brown medium an  lo recovery  Brown medium					5	6451	0.75						
Drilling					_												N	/letho	d:						
-				nental	Technolo	gies (SET)	)											/acuu		xcav	atio	n/ Di	irect	Pus	sh
Start Da						ite: 8/25/20					Soi	l Lo	ager	: М	atthe	w Sn	nith								
Boring l						Depth: 16.																			
Soil Bo			epth		•	Sampl		Depth to Water: 3.0  SC  Depth PID  0.0'-0.5' ASPHALT  2.3 0.5'-1.0' Brown Silty fine SA  0.4 1.0'-3.0' Brown Silty fine SA  9.1 3.0'-4.0' Dark brown to blace										DIDT							
Litholo	-		eet)		ID		Depth	PID							SO	IL DE	SC	RIPT	ION						
			0																						
			0						0.0	-0.5	' AS	SPH	ALT												
			1 -					2.3	0.5	-1.0	' Br	own	Silty	y fine	e SAI	ND w	ith t	trace	Grav	/el					
			'					0.4	1.0'	-3.0	' Br	own	Silty	y fine	e SAI	ND w	ith (	Grave	el an	d so	me (	Clay	,		
			2																						
			_																						
			3																						
			3					9.1	3.0'	-4.0	' Da	ırk b	row	n to	black	CL/	۱Y								
			4		FP-S	S-1	(3.5-4.0)																		
			4					1.0	4.0'	-6.0	' Br	own	and	l dar	k bro	wn S	ilty	SANI	) an	d Cl	ay				
			5																						
			3					1.2																	
			6																						
			0					0.0	6.0	-7.0	' Da	ırk b	row	n Sil	ty SA	ND '	with	Clay	and	Gra	vel				
			7 -																						
			′						7.0'	-9.5	' Br	own	med	dium	and	coai	se S	SANE	) with	n Gr	avel				
			8					0.0																	
			0																						
			9																						
			J																						
			10 -						9.5	-11.	0' N	lo re	cov	ery											
			10																						
			11																						
								0.0	11.0	)'-1 <sup>4</sup>	1.0'	Brov	wn n	nedi	um a	nd c	oars	e SA	ND v	vith	Silt a	and (	Grav	/el	
			12																						
			12																						
			13																						
			13																						
			14 –																						
			7					0.0	14.0	D'-15	5.5'	Dar	k bro	own	Silty	CLA	Y wi	th or	ganic	ma	teria	ıl			

15.5'-16.0' No recovery

SOIL BORING	LOG
Boring Name:	FP-SS-2

Subsurface Environmental Technologies (SET)



Vacuum Excavation/ Direct Push

Permit No: NA

Client: Site Name: Northing:
Hess Corporation Port Reading Complex 628821.85

Site Address: Easting:
750 Cliff Road, Port Reading, Middlesex County, New Jersey 564488.76

Drilling Company: Method:

Start Date:8/25/2014 Complete Date: 8/25/2014 Soil Logger: Judith Kirkbride

Boring Diameter: 2" Completion Depth: 11.0' Depth to Water: 3.5'

Soil Boring	Depth	Samp	es								90	DIL [	)ES	CDI	DTI	)NI			
Lithology	(feet)	ID	Depth	PID							30		JLO	CINI	1 11	JIN			
	0 —																		
	0			0.0	0.0'-	0.5	5' AS	SPH	ALT	•									
	1			0.0	0.5'-	4.0	'Re	ddis	sh bi	owi	n Cla	ayey	SA	ND	with	Gra	avel		
				0.0															
	2																		
				0.0															
	з			0.0															_
	-																		_
	4			4.3															4
				0.0	4.0'-										h G	rave	l		_
	5	FP-SS-2	(4.5-5.0)	4.4	4.5'-									ΑY					
				3.4	5.0'-	6.0	' Da	rk b	row	n Sa	andy	CL	٩Y						_
	6 —			0.0															_
				0.0	6.0'-														_
	7				7.0'-	8.0	' Da	rk g	rey	to b	lack	Cla	yey	SAN	1D				_
																			_
	8 —			0.0															_
					8.0'-	-11.	0' B	row	n S/	AND	witl	n Gr	avel						_
	9 —			0.0															_
																			_
	10			0.0															+
																			+
	11			0.0		_													_
																			+

SOIL BORING	LOG
Boring Name:	FP-SS-3



Permit No: NA

Client:	Site Name:	Northing:
Hess Corporation	Port Reading Complex	628838.63
Site Address:		Easting:
750 Cliff Road, Port F	Reading, Middlesex County, New Jersey	564488.76
Drilling Company:		Method:
Subsurface Environm	ental Technologies (SET)	Vacuum Excavation/ Direct Push

Start Date:8/25/2014 Complete Date: 8/25/2014 Soil Logger: Judith Kirkbride

Boring Diameter: 2" Completion Depth: 11.0' Depth to Water: 3.5'

Soil Boring	Depth	Samp	les								50	DIL [	)FS	CRI	PTI	NC						
Lithology	(feet)	ID	Depth	PID							50		JLO	CIVI	1 110	JIN						
	0																					
	U			0.0	0.0'-	- 0.5	5' AS	SPH	ALT	-												
	1				0.5'	-4.5	'Re	ddis	sh bi	rowi	n Sil	ty S	AND	) wit	h Gr	rave	ı					
	,																					
	2			0.0																		
	-			0.0																		
	з																					
	Ĵ																				4	_
	4			1.0																		
	- 1																					
	5			2.2	4.5'	-5.0	' Bro	own	SAI	۷D۱	with	fine	to n	nedi	um (	Gra	vel					
	-				5.0'	-5.5	' Bla	ick S	SAN	ID w	ith (	grey	fine	to n	nedi	um	Gra	vel				
	6 —			1.3																		_
	-			0.0	6.0'	-7.0	' Bro	own	SAI	۷D۱	with	fine	to n	nedi	um ı	mult	i-co	lore	d Gr	avel		
	7 —	FP-SS-3	(6.5-7.0)	6.9										Ш								
														Ш								
	8				7.5'																	
					8.0'	-11.	0' B	row	n an	ıd gı	rey S	SAN	D wi	ith m	nulti-	-cold	ored	Gra	vel			_
	9 —																			_		
																				_		
	10																			_		
														Ш						_	_	
	11													Ш						_	_	
																				_	_	

SOIL BORING	LOG
Boring Name:	FP-SS-4
Permit No: NA	



FEITHLING, INA			
Client:	Site Name:		Northing:
Hess Corporation	Port Reading Complex		628880.17
Site Address:			Easting:
750 Cliff Road, Port	Reading, Middlesex County, New Jersey		564474.42
Drilling Company:			Method:
Subsurface Environi	mental Technologies (SET)		Vacuum Excavation/ Direct Push
Start Date:8/25/2014	4 Complete Date: 8/25/2014	Soil Logger: Matthew Smit	h

Boring Dian	neter: 2"	Completion Depth: 11	.0'				Dep	th to	o Wa	ater	: 3.5	5'										
Soil Boring	Depth	Samp	les								SC	IL D	)FS(	CRI	PTI	ЭМ						
Lithology	(feet)	ID	Depth	PID							-			O. (.		J. 1						
	_ 0 _																					
				0.0	0.0'-	0.5'	AS	PH/	٩LT													
	1				0.5'-	2.0'	Bro	wn	fine	and	l me	diur	n SA	AND	) wit	h tra	ice	Grav	vel			
				0.0		_																
	2																					
				0.3	2.0'-	3.0'	Gre	ey a	nd b	row	n fin	e ar	nd m	nedi	um	SAN	ID v	vith	trace	e Gr	ave	
	3																					
		FP-SS-4	(3.0-3.5')	0.4	3.0'-	6.0'	Da	rk b	rowr	n to	blac	k Si	lty fi	ne S	SAN	D w	ith (	Grav	/el a	nd (	CLA	Υ
	4																					-
				0.0																		$\vdash$
	5																					
				0.0																		$\vdash$
	6 —			0.0	0.01	0.01	<u> </u>			0:1		0	A N 15								_	$\vdash$
				0.0	6.0'-	8.0	υai	rk d	rowr	1 511	ty fir	ne S	ANL	J WI	tn C	lay i	and	trac	e G	rave	91	
	7																					$\vdash$
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	- 8				8.0'-	10.0	ר אי	COM	a fin	o an	d m	odiı	ım C	2 A N	D w	ith (	2rav	(Ol				
				0.0	0.0-	10.0	וטי	JWI		c ai	iu ill	cuit	ai 11 C	νΛιΝ	۷۷ <u>ح</u>	iai C	ıa۷	, GI				
	9 —			0.0	$\vdash$																	$\Box$
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	10				10.0	r'-11	1 '0.	No r	ecov	/erv												$\Box$
					10.0	T			200	,												$\Box$
	11																					

SOIL BORING LOG Boring Name: FP-SS-5



Permit No: NA

Client: Site Name: Northing: 628933.11 Hess Corporation Port Reading Complex Site Address: Easting: 750 Cliff Road, Port Reading, Middlesex County, New Jersey 564440.62 Drilling Company: Method: Subsurface Environmental Technologies (SET) Vacuum Excavation/ Direct Push

Start Date:8/25/2014 Complete Date: 8/25/2014 Soil Logger: Matthew Smith

Boring Dian	neter: 2	" (	Completion Depth: 16	3.0'				Dep	th t	o Wa	ter:	4.0	)'									
Soil Boring	Depth	1	Sam	ples									)IL C	)EC	CDI	DTI	ON					
Lithology	(feet)		ID	Depth	PID							30	/IL L	JES	CKI	FII	OIN					
	0 -																					
	U U				4.1	0.0'	-0.25	5' A	SPH	IALT												
	1					0.25	5'-3.0	)' Bı	rwor	n Silt	y fir	ne S	ANE	) ar	nd G	irav	el					
					4.7															L	L	
	2																				L	
					14.5																L	
	3		FP-SS-5	(2.5-3.0')																L	<u> </u>	
					14.0	3.0'	-7.0'	Da	rk b	rown	Silt	ty fir	ne S	ANI	D wi	ith C	rav	el				
	4										_									L	_	
		$\dashv$			10.5						$\dashv$										$\vdash$	
	5										-										$\vdash$	
					9.9						$\dashv$										$\vdash$	
	6				10.1																	
					10.1																	
	7				9.7	7 O'	-Q O'	Rla	ck <sup>9</sup>	Silty (	~1 Δ	V									$\vdash$	
					5.1	7.0	3.0	Dia	OK C	Jiity C		<b>\</b> 1										
	- 8																				$\vdash$	
	9 -				2.2	9.0'	-15.0	)' Bı	rowi	n me	diur	n aı	nd c	oars	se S	ANI	D wi	th G	rav	el		
	10																					
	10																					
	11																					
					2.0																	
	12	_									_										L	
		4									_										L	
	13	_									4										_	
		_									_										_	
	14-	_									_										_	
		_									_										_	
	15	$\dashv$																			-	
		$\dashv$			2.1	15.0	0'-16	.0' [	Dark	( bro	wn (	Silty	CL	AY١	with	Gra	vel				-	
	16-										_										-	

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Boring Nar Permit No:		-SS-6															E	Envi	ronme	ental !	Servic	a res	C
Client:		Site Na	ame:												Nor	thing	g:						
Hess Corpo	oration	Port R	eading Comp	lex											628	926	.37						
Site Addres	ss:														Eas	ting	:						
750 Cliff Ro	ad, Por	t Reading,	Middlesex Co	ounty, New Jers	sey										564	422	.38						
Drilling Cor	npany:														Met	hod	:						
_		nmental Te	chnologies (S	SET)											Vac	uum	ı Ex	cava	ation	/ Di	rect	Pus	h
Start Date:8	3/25/201	4 Compl	ete Date: 8/2	5/2014				Soil	Log	gger	: Ju	dith I	Kirkb	ride	Э								_
Boring Diar	neter: 2	" Compl	etion Depth:	16.0'				Dep	oth t	o W	ater	: 3.5											_
Soil Boring	Dept	h	Sa	mples								00	II D	-04	ווחכ	DTIC	201						
Lithology	(feet		ID	Depth	PID							50	IL DI	E5(	JKII	PIIC	אוכ						
	0																						_
	0				0.0	0.0'	-0.5	' AS	PH/	٩LT	and	Roa	dsto	ne									
	1				0.0	0.5'	-1.5	'Re	ddis	sh br	rowr	Silt	y SA	ND	with	n fin	e to	me	dium	Gr	avel		
	1 -																						
	2				3.5	1.5'	-2.5	' Gre	еу С	:LA\	1												
	3 .				0.0	2.5'	-3.0	'Re	ddis	sh br	rowr	Silt	y SA	ND	with	n me	ediu	m G	rave	el			
	ა					3.5	-6.5'	Bro	wn	to gi	rey S	Silty	SAN	Dν	/ith 1	fine	to m	nedi	um (	Grav	/el		
	4				30.2																		
	4																						
	5		FP-SS-6	(4.5-5.0)	48.6																		
	6 -				45.0																		
	0				0.0																		
	7				3.0	6.5'	-7.0	' Fin	e da	ark ç	grey	to b	rown	Sil	ty S	ANE	)						
	′				0.0	7.0'	- 8.5	5' Da	ark ç	grey	CLA	¥Υ											
	8																						
	J																						
	9				0.0	8.5'	-11.	0' B	rowi	n an	d lig	ıht gı	ey S	AN	D w	ith r	multi	i-col	orec	l me	diur	n	
	J					Gra	vel																
	10																						
	11.																						
					0.0	11.0	0'-13	3.0' [	Dark	c gre	y Si	lty fi	ne S	AN	D								
	12																						
	13																						
					0.0	13.0	0'-16	6.0' I	Red	dish	bro	wn (	3rave	elly	SAI	ND							
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														Ц							$\Box$		
	15												_	_									

SOIL BORING LOG
Boring Name: FP-SS-7



Permit No: NA

Client:	Site Name:	Northing:
Hess Corporation	Port Reading Complex	628977.83
Site Address:		Easting:
750 Cliff Road, Port Re	eading, Middlesex County, New Jersey	564402.08
Drilling Company:		Method:
Subsurface Environme	ental Technologies (SFT)	Vacuum Excavation/ Direct Push

Subsurface	Environme	ental Technologies (SE	1)									Vac	cuun	1 Ex	cava	ition/	Dire	ect Pu	ısh
Start Date:8	/26/2014	Complete Date: 8/26/	2014			So	il Lo	gger:	Ма	tthev	v Smit	h							
Boring Diam	neter: 2"	Completion Depth: 1	6.0'			De	pth t	o Wa	ater:	4.5'									
Soil Boring	Depth	Sam	ples							SOI	L DES	SCRI	PTIC	NC					
Lithology	(feet)	ID	Depth	PID							(	-0111		- 1 1					
	0 —																$\bot$		
	,				0.0'-0	).5' AS	SPHA	٩LT									_		L
	_ 1 _			7.8	0.5'-4	l.0' Br	own	Silty	fine	SAN	ND an	d Gr	avel				_		L
				11.3													_		L
	2																_		L
				19.1													_		L
	_ з _																_		L
	,	FP-SS-7	(3.0-3.5)	24.6													_		L
	4																$\perp$		L
				20.1	4.0'-6	6.0' Br	own	Silty	fine	SAN	ND wit	h Cla	ay ar	nd G	3rave	el	$\perp$		L
	5																$\perp$		L
	,			9.6													_		L
	6 —																_		L
	,			21.2	6.0'-7	7.0' Br	own	Silty	fine	SAN	ND wit	h Gr	avel				_		L
	_ 7 _																		
	,			18.7	7.0'-1	1.0' [	Dark	brow	n S	ilty C	LAY v	vith t	race	Gra	ivel		$\perp$		
	8																		
	ŭ																		
	9 —																		
	ŭ																		
	10																		L
	.0							Ш											L
	11																$\perp$		L
				3.8	11.0'-	-15.0'	Dark	k bro	wn S	Silty (	CLAY	with	trac	e Gı	ravel		_		L
	12																_		ļ
																	$\perp$		
	13																		
	.5																		
	14																		
	17																		
	15																		
	13			4.7	15.0'-	-16.0'	Brov	vn m	ediu	ım to	coars	se S/	AND						
	16																		
	- 10																T		

13

14

15

16



Boring Nan	ne: FP-SS	S-8														tal Serv		C
Permit No: N	NΑ													Enviro	nment	ai Serv	ices	
Client:		Site Name:									Norti	hing	:					
Hess Corpo	ration	Port Reading Comple	X								6289	80.5	58					
Site Address	s:										East	ing:						
750 Cliff Ro	ad, Port R	eading, Middlesex Cou	nty, New Jer	sey							5643	393.5	52					
Drilling Com	pany:										Meth	od:						
Subsurface	Environme	ental Technologies (SE	T)								Vacu	ıum	Exc	avat	ion/	Direc	t Pu	sh
Start Date:8	/26/2014	Complete Date: 8/26/	2014			Soi	il Log	gger: Ju	dith K	irkbric	le							
Boring Diam	neter: 2"	Completion Depth: 1	6.0'			De	pth to	o Water	: 4.5'									
Soil Boring	Depth	Sam	ples						SOII	_ DES	CRIP	TIO	N					
Lithology	(feet)	ID	Depth	PID					001.	- 520	. O. t							
	_ 0 _																	
	Ť				0.0'-0	.5' AS	SPH/	ALT and	Road	Istone	:			_	_		L	
	_ 1 _			39.0	0.5'-2	.5' Da	ark re	d Silty	SAND	with (	Grave	el	_	_	_	4	L	
														_	4		Ļ	
	2			122									_	_	_	_	╙	
												_			_	+	⊢	
	з			112	2.5'-4	.5' Da	ark re	d Silty	SAND	and (	grey S	Sand	l witl	h Gra	avel		╀	
		=======================================	(2 - 4 2)			+				_		-	+	+	+	+	⊢	
	<u> </u>	FP-SS-8	(3.5-4.0)	147									-	_	+	+	⊬	
				00.7	4.51.0	51 O-	C	AND	اء ما حا	Olavi	l C	<b>\</b>	-1	+	+	+	⊢	
	5 —			26.7	4.5 -6	.5 GI	ey S	AND wi	ın rea	Clay	and C	Jiave	eı	+	+	_		
				67									_	+	+	+		
	6 —			07										+	+	+	$\vdash$	
				79.8	6.5'-8	.0' Da	ark re	ed to bro	own co	arse	SANI	) (m	ottle	ed)	+	+		
	7													,	$\top$			
	0			28.6										$\top$	$\top$	$\top$	Т	
	- 8 -			17.7	8.0'-8	.5' Cl	ayey	fine SA	ND					$\top$		$\top$		
	9			0.2				dark bro		_AY								
	9																	
	10																	
	10																	
	11			23.9	10.5'-	13.0'	Dark	brown	Silty S	SAND			4		$\bot$		L	
															_	4	L	
	12			16.2								_	4	4	4	4	L	

19.0

13.4

13.0'-15.0' Brown coarse SAND

15.0'-16.0' Very dark grey CLAY with organic material (Meadow Mat)

SOIL BORING LOG

Boring Name: FP-SS-9

Envirolrac Environmental Services

Permit No: NA

Client: Site Name: Northing:

Hess Corporation Port Reading Complex 629044.12

Site Address: Easting:
750 Cliff Road, Port Reading, Middlesex County, New Jersey 564394.62

Drilling Company: Method:
Subsurface Environmental Technologies (SET) Vacuum Excavation/ Direct Push

Start Date:8/26/2014 Complete Date: 8/26/2014 Soil Logger: Matthew Smith

Boring Diameter: 2" Completion Depth: 16.0' Depth to Water: 4.5'

Soil Boring Depth Samples

Soil Boring	Depth	Sampl	es		SOIL DESCRIPTION
Lithology	(feet)	ID	Depth	PID	COL BECOMM HON
	0				
	U				0.0'-0.5' ASPHALT
	_ 1 _			15.4	0.5'-3.0' Brown Silty fine SAND and Gravel
	-			6.1	
	2				
	-			1.5	
	3				
	J			1.3	3.0'-4.0' Brown Silty fine SAND and Gravel with cobbles
	4				
	7			1.4	4.0'-6.0' Brown and grey Silty fine SAND with Gravel
	5				
	Ĭ,			1.7	
	6				
	ŭ			1.1	6.0'-7.5' Brown Silty fine SAND with trace Gravel
	7				
	8	FP-SS-9	(8.0-8.5)	19.9	7.5'-9.0' Dark brown and black Silty CLAY
	•				
	9 —				
	-			2.3	9.0'-10.0' Brown to dark brown medium to coarse SAND with
	10				Gravel
					10.0'-11.0' No Recovery
	11				
				3.9	11.0'-15.0' Brown to dark brown fine to medium SAND with
	12				trace Silt and Gravel
	13				
	14				
	15				
				2.4	15.0'-16.0' Dark brown Silty CLAY with organic material (Meadow
	16				Mat)



Boring Nan		SS-10																	ental S							
Permit No: N	NΑ																Liivii	Omm	errar s	, ci vic	63					
Client:		Site Name:												Nor	rthin	g:										
Hess Corpo	ration	Port Reading Complex												629	9036	.19										
Site Address	s:														Easting:											
750 Cliff Ro	ad, Port	Reading, Middlesex Count	ading, Middlesex County, New Jersey 5												564376.19											
Drilling Com	npany:															Method:										
Subsurface	Environ	mental Technologies (SET	ental Technologies (SET)												Vacuum Excavation/ Direct Push											
Start Date:8	/26/201	4 Complete Date: 8/26/20	Complete Date: 8/26/2014 Soil Logger: Judith											е												
Boring Diam	neter: 2	Completion Depth: 16.0' Depth to Water: 4.5'																								
Soil Boring	Deptl	n Samp	les								so	) П	FS	CRI	PTIC	NC										
Lithology	(feet)	ID	Depth	PID										·												
	o																			_						
					0.0'	-0.5	' AS	PHA	٩LT	and	Roa	adst	one							_						
	1			0.0	0.5'	-1.5	'Re	ddis	h br	owr	Silt	y SA	AND	) wit	h G	rave	əl			_						
																				_						
	2			0.1	1.5'	-4.5	'Re	ddis	h br	owr	and	d gre	ey S	ilty S	SAN	ID w	ith (	3rav	'el	_						
																				_						
	з			0.5																_						
																				-						
	4			16.1																-						
																				$\dashv$		_				
	5	FP-SS-10	(4.5-5.0)	16.6	4.5'	-5.5	'Re	ddis	h br	owr	CL	AY١	with	coa	rse	San	ıd			$\dashv$						
																				$\dashv$						
	- 6			13											l with					$\dashv$						
				40.4	6.0'	-8.7	5' B	row	n SA	AND	with	ı mu	Ilti-C	olor	ed C	ravد	/el			$\dashv$						
	7			10.1																$\dashv$		_				
				77																$\dashv$		_				
	8			7.7								-								$\dashv$		_				
				8.2	0 7	5' 10	) <b>5</b> '	Brov	wn S	ilty (	SVN	D o	nd c	lark	brov	wn (	Clay			+		_				
	9			0.2	0.73	3-10	).5	DIOV	VII S	ицу .	SAIN	υa	na c	aik	DIO	WII	Jiay			+		_				
				0.0																_						
	10			0.0		_														$\dashv$						
				8.2	10 !	5-11	٥' ١	√ery	dar	k hr	own	CL A	ΔY							$\dashv$		_				
	11			0.1										h m	ulti-	colo	red	Grav	vel							
				9.5					0	04.0					Q. 1 C.	00.0		<b>0</b> .u		$\dashv$						
	12																			$\neg$						
				11.1	12.5	5'-13	3.5'	Dark	c bro	wn	SILT	「an	d Cl	av						$\neg$						
	13			6.4										,						$\neg$						
	4.4			6.0	13.5	5'-14	1.0'	Dark	c bro	wn	CLA	·Υ								$\neg$						
	14			5.0	14.0	)'-15	5.0'	Brov	vn c	oars	e S	ANE	) wit	h m	ulti-	colo	red	Gra	vel	$\dashv$						
	15-																									
	15			5.0	15.0	)'-16	3.0'	Mea	dow	<i>и</i> Ма	t															
	16																									
	סו																									

# SOIL BORING LOG Boring Name: FP-SS-11 Permit No: NA Client: Site Name: Northing: Hess Corporation Port Reading Complex 628950.22 Site Address: Easting: 750 Cliff Road, Port Reading, Middlesex County, New Jersey 564727.48

Drilling Con	npany:				Method:												
Subsurface	Environm	ental Technologies (SE	T)	Vacuum Excavation/Hand Auger													
Start Date:9	)/23/2014	Complete Date: 9/23/2	2014		Soil Logger: Judith Kirkbride												
Boring Dian	neter: 2"	Completion Depth: 4.	0'		Depth to Water: 2.0'												
Soil Boring	Depth	Sam	ples		SOIL DESCRIPTION												
Lithology	(feet)	ID	Depth	PID	SOIL DESCRIPTION												
	0																
					0.0'-0.25' ROADSTONE												
	1	FP-SS-11	(0.5-1.0)	46.6	0.25'-1.5' Very dark brown coarse SAND with Gravel												
	'																
	2			17.2	1.5'-2.5' Brown Silty SAND with Gravel												
	3			3.6	2.5'-3.0' Brown Sandy CLAY with Gravel												
	1,0				3.0'-4.0' Very dark brown CLAY with brown mottling and organic												
	4			0.0	material												
4																	

SOIL BORING	LOG
Boring Name:	FP-SS-12
D 't NI - NIA	



Permit No: NA

Client:	Site Name:	Northing:
Hess Corporation	Port Reading Complex	628950.10
Site Address:		Easting:
750 Cliff Road, Port	Reading, Middlesex County, New Jersey	564758.10
Drilling Company:		Method:
Subsurface Environr	mental Technologies (SFT)	Vacuum Excavation/Hand Auger

Start Date: 9/23/2014	Complete Date: 9/23/2014	Soil Logger: Ivan Pawlenko
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Boring Diam	neter: 2"	Completion Depth: 6.0'	ı		Depth to Water: 2.5'
Soil Boring	Depth	Sampl	es		SOIL DESCRIPTION
Lithology	(feet)	ID	Depth	PID	
	0				
					0.0'- 0.5' ROADSTONE
	1	FP-SS-12	(1.5-2.0)		0.5'-2.5' Medium brown, Silty, Sandy GRAVEL
				0.0	
	2				
				0.0	
	3				2.5'-4.0' Medium brown, Gravelly, Sandy CLAY
	3			0.0	
	4				
	7 7			0.0	4.0'-5.0' Grey to brown, Sandy, Silty CLAY
	5				
	3			0.0	5.0'-5.5' Grey to brown Silty CLAY
	6				5.5'-6.0' Dark grey to brown Silty CLAY with organic material

0.0

SOIL BORING	LOG
Boring Name:	FP-SS-13



Permit No: NA

Client:	Site Name:	Northing:
Hess Corporation	Port Reading Complex	628933.63
Site Address:	<del></del>	Easting:
750 Cliff Road, Port	Reading, Middlesex County, New Jersey	564748.08
Drilling Company:		Method:
Subsurface Environr	mental Technologies (SET)	Vacuum Excavation/Hand Auger

Start Date: 9/23/2014 Complete Date: 9/23/2014 Soil Logger: Ivan Pawlenko

Boring Diameter: 2"	Completion Depth: 5.5'	Depth to Water: 2.5'
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Soil Boring	Depth	Samp	les		SOIL DESCRIPTION											$\neg$						
Lithology	(feet)	ID	Depth	PID	SOIL DESCRIPTION																	
	0																					
					0.0'- 0.5' ROADSTONE																	
	1				0.5'-1.5' Medium brown Sandy GRAVEL with trace Silt																	
				0																		
	2				1.5'-4.0' Medium brown, Silty, Gravelly SAND																	
				0																		
	3																					
	,			0																		
	4																					
	4	FP-SS-13	(4.0-4.5)	0.3	4.0'-5	5.0'	Gre	ey to	bro	wn,	Sar	ndy,	Silty	y CL	AY.							
	5																					
	3			0	5.0'-5	5.5'	Da	rk g	rey t	to br	own	Silt	y Cl	LAY	with	n org	gani	c ma	ateri	al		
				0																		

### SOIL BORING LOG Boring Name: FP-SS-14



Permit No: NA

Client:	Site Name:	Northing:
Hess Corporation	Port Reading Complex	628929.39
Site Address:	Easting:	
750 Cliff Road, Port F	564722.96	
Drilling Company:		Method:
Subsurface Environm	nental Technologies (SET)	Vacuum Excavation/ Direct Push
Start Date: 9/23/2014	Complete Date: 9/23/2014	Soil Logger: Judith Kirkbride

	Complete Date: 9/23/2014 Soil Logger. 3	udilii Kiikbiide
		·
Boring Diameter: 2" Completion Depth: 5.0' Depth to Water: 2.0'	Completion Depth: 5.0' Depth to Water	er: 2.0'

.0.0	completion populi olo		2001.10 114.0.1 2.0														
Depth	Sampl	es		SOIL DESCRIPTION													
(feet)	ID	Depth	PID	SOIL PLOCKIN HOW													
0																	
				0.0'-0.25' ROADSTONE													
4			0.0	0.25'-2.0' Light reddish brown, medium to coarse, Gravelly SAND													
1																	
2	FP-SS-14	(2.0-2.5)	7.8	2.0'-2.5' Dark brown CLAY													
2				2.5'-3.5' Brown Silty medium to fine SAND with fine Gravel													
_ 3 _			0.0														
4			0.0	3.5'-4.0' Fine SAND with fine Gravel													
4				4.0'-5.0' Dark brown to black CLAY with brown mottling													
_																	
_ 5 _																	
	Depth	Depth (feet) ID  0	Depth (feet)         Samples           0         Depth           1         2           FP-SS-14         (2.0-2.5)           3         4	Depth (feet)         Samples           0         ID         Depth         PID           1         0.0           2         FP-SS-14         (2.0-2.5)         7.8           3         0.0           4         0.0													

SOIL BORI	NG LC	G																								
Boring Nar	ne: VI	LD-	SS-1														E			ro			C			
Permit No:	NA																	Envi	ronm	nental	Servi	ces				
Client:			Site Name:												Northing:											
Hess Corporation Port Reading Complex							629857.74																			
Site Addres	ss:														Eas	sting	J:									
750 Cliff Ro	ad, Po	rt Re	eading, Middlesex Cou	nty, New Jers	sey										564	662	2.11									
Drilling Company:																		Method:								
Subsurface Environmental Technologies (SET)									Vacuum Excavation/ Direct Push																	
Start Date:8/22/2014									Soil Logger: Judith Kirkbride																	
Boring Diar	neter:	2"	Completion Depth: 1	1.0'				Dep	oth t	o W	'ater	: 3.5	5'													
Soil Boring	Dep	th	Sam	ples		SOIL DESCRIPTION																				
Lithology	(fee	et)	ID	Depth	PID							00	/IL L	<i>,</i>	OIXI	1 110	014									
	0																									
	J					0.0	-5.5	' Br	own	SIL	T wi	th fi	ne a	nd n	ned	ium	Gra	vel								
	1				0.0																					
	·																									
	2																			Ш						
																				Ш						
	3																			Ш						
																				Ш						
	4	_	VLLD-SS-1	(3.5-4.0)	0.0															Ш						
																				Ш						
	5	_																		Ш						
																				Щ						
	<del></del> 6	_			0.0	5.5	-7.5	' Gr	ey S	ilty	SAN	ID w	ith n	nedi	um	mul	ti cc	lor (	Grav	/el						
																				Н						
	7																			Н						
					0.0								01.1							Н						
	<del></del> 8				0.0	·																				
					0.0	0.0 8.0'-11.0' Black and dark grey CLAY (Meadow Mat)								)	Н											
	9	$\vdash$																		Н						
		+												_					$\vdash$	$\vdash$						
	10	<b>—</b>				$\vdash$								_					$\vdash$	$\vdash$						
		+																	$\vdash$	$\vdash$						
	11	-				$\vdash$							$\vdash$						$\vdash$							
			Ī	1	ı	1														1						

<b>SOIL</b> <b>Borin</b> Permi	g N	lame	: VLL		SS-2													E	Envi	ronm	CO ental	Servi	ac
Client	:				Site Name:											Noi	thin	ıg:					
Hess	Coı	rpora	tion		Port Reading Complex	(										629	737	7.51					
Site A	ddr	ess:														Eas	sting	g:					
750 C	liff	Road	l, Port	Re	ading, Middlesex Cour	ity, New Jers	sey									564	1895	5.01					
Drillin	g C	ompa	any:													Me	thod	d:					
Subsi	urfa	ce Eı	nviron	me	ntal Technologies (SET	<u>-</u> )										Vac	cuur	n Ex	cav	atio	n/ Di	rect	Push
Start I	Dat	e:8/2	2/201	4	Complete Date: 8/22/2	014				Soi	ΙLο	gger:	Matt	hew	Smit	h							
Borin	g Di	iame	er: 2		Completion Depth: 11	.0'				Dep	oth t	o Wat	er: 4	.0'									
Soil B	Borir	ng	Depth	)	Samp	oles								·OII	DES	CDI	DTI	ON					
Lithology (feet) ID Depth							PID							OIL	DES	CKI	F 11V	OIN					
			0																				
	4						49.7					c mat											
	_		- 1									Silty f								avel			
	4						26.6	1.0	'-2.0	' Bro	own	Silty f	ine S	SANE	) with	r tra	ce (	Grav	/el				
	4		2																		Щ		
	+		$\perp$				26.6	2.0	'-6.0	' Bro	own	fine a	nd n	nediu	m S/	٩NE	) wit	h tra	ace (	Gra۱	/el		
	_		- 3										_										
	_		$\perp$				55.5						_										
	_		4		VLLD-SS-2	(3.5-4.0)							_										
	_		$\perp$				50.1						_										
	_		- 5										_										
	+		$\perp$				47.6																
	+		- 6																				
	+						6.8	6.0	'-8.5	' Bro	own	fine to	me	dium	and	coa	rse	SAI	VD v	vith	Grav	/el	_
	+	_	7										_	-									

8.5'-9.0' Dark grey and black CLAY

9.0'-11.0' No recovery

5.7

8

10

11

SOIL BOR	ING I	LOG																				
Boring Na	me:	VLLD	-SS-3														:ŋ	V		olr	_	C
Permit No:	NA																Er	nviron	ımenta	al Servi	ces	
Client:			Site Name:											1	North	ning:						
Hess Corpo	oratio	n	Port Reading Comple	×										6	5294	93.5	3					
Site Addres	ss:													E	Easti	ng:						
750 Cliff Ro	oad, l	Port R	eading, Middlesex Cou	nty, New Jers	sey									Ę	650	45.1	3					
Drilling Cor	npan	ıy:												ľ	Meth	od:						
Subsurface	Env	ironm	ental Technologies (SE	T)										١	/acu	ıum l	Exca	avati	on/ [	Direct	Pus	sh
Start Date:			Complete Date: 8/22/									dith	Kirkb	ride	Э							
Boring Diar		r: 2"	Completion Depth: 1	1.0'				Dep	oth t	o W	ater	: 1.5'										
Soil Boring		epth		ples	ı	1						SO	IL DE	SC	RIP	MOIT	1					
Lithology	(f	eet)	ID	Depth	PID								_	_	_	_	_	_	_	_		_
	Н	0	_														_	_				
					0.0	0.0	'-1.5	'Re	ddis	sh b	rowr	Silty	/ SAI	۱D	with	fine	to m	nedi	um G	Gravel	1	
	Н	1 —										_	-	+	-	+	+	+	+	+		
					0.0	4.5								+			+	+	+	+		
	Н	2 —			0.0	_	_	'Re				Cile	. С А І	ıD	i.th	fina	<b>to</b> n	o o di		Gravel		
						2.0	-3.0	Re	uuis	SII DI	lOWI	i Siity	/ SAI	עט	WILII	IIIIe	10 11	lean	um G	ilavei		
	Н	3 —			0.0	3 0'	'-4 N	' Ra	ddie	sh h	rowr	Cla	νον <sup>ς</sup>	ΔN	ID	+	+	+	+			
					0.0	5.0	7.0	110	uuis	11 0	OWI	l Ola	усус				+	+	+			
	П	4			3.7	4.0'	-4.5	' Bro	own	Silt	y SA	ND				+	+	十	+	+		
		_	VLLD-SS-3	(4.5-5.0)	11.7							ndy	CLA`	1			$\top$		$\top$			
	П	5 —		,								Í					$\top$	$\top$	$\top$			
		6			8.2																	
		0			0.0	6.0	'-10.	5' B	rowi	n an	nd gr	ay G	rave	ly S	SANI	o						
		7																				
		′																				
	Ш	8																				
		_										_	_	4	4	4	1	4	4	Ш		
	Ш	9										_		4			4	4	4	Ш		
																		$\perp$				

0.7

10.5'-11.0' Brown and black CLAY (Meadow Mat)



PROJECT NUMBER: 1114J01.19
PROJECT NAME: AOC 103 - Fire Pits

Former Port Reading Complex

CLIENT: Hess Corp.

ADDRESS: 750 Cliff Rd., Port Reading, NJ

**DRILLING DATE:** 1/7/20 **DRILLING COMPANY:** UTD

DRILLER: BH
DRILLING METHOD: HSA
TOTAL DEPTH: 14'

LOGGED BY: KY
DIAMETER: 2"
DTW: 2.5'

CASING: 2' SCREEN: 10'

NOTES: Pre-cleared to 6' using hand auger. Did not observe any ash/burnt material. PID hits

PID (ppm)	Samples	Depth (ft)	Graphic Log	Material Description	Well Diagram
<u> </u>	ΐ	۵	Ō	ACDUALT	// K/l a .
0.0		1		ASPHALT HISTORIC FILL: Brown fine to coarse sand, some fine gravel and silt, loose	-Grout -Bentonite
0.0		2		<u>⊽</u>	
0.0		3			
0.0		4	HF		
0.0		5			
0.0		6			
0.0		7			Filter
0.0		8		SILTY SAND: Brown fine to coarse sand and silt, some fine gravel, slight organic odor, loose	Tack
0.0		9			
0.0		11	-SM	SILTY SAND: Brown fine to coarse sand and silt, trace fine gravel, slight organic odor, loose	
17.8		12			
23.7		13			
86.9		14	PT	MEADOW MAT	
		15			



PROJECT NUMBER: 1114J01.19
PROJECT NAME: AOC 103 - Fire Pits

Former Port Reading Complex

CLIENT: Hess Corp.

ADDRESS: 750 Cliff Rd., Port Reading, NJ

**DRILLING DATE:** 1/8/20 **DRILLING COMPANY:** UTD

DRILLER: ET

**DRILLING METHOD**: HSA **TOTAL DEPTH**: 14'

LOGGED BY: KY

DIAMETER: 2"
DTW: 3'

CASING: 2' SCREEN: 12'

NOTES: Pre-cleared to 6' using hand auger. Did not observe any ash/burnt material. PID hits

appear to b	e associated with	T	Tiateriai.	T	
PID (ppm)	Samples	Depth (ft)	Graphic Log	Material Description	Well Diagram
				ASPHALT	Grout
0.0		1		HISTORIC FILL: Brown fine to coarse sand, some fine gravel and silt, loose	Bentonite
0.0		2			
0.0		3		<u> </u>	
0.0		4	HF		
0.0		5			
0.0		6			
0.0		7			
0.0		8		SILTY SAND: Brown fine sand and silt, medium dense	Filter
0.0		9	-SM		
0.0		10		CLAYEY SILT: Black silt, some clay, wet, soft, slight organic odor	
16.6		11	-OL		
29.1		12		SILTY SAND: Brown fine to coarse sand and silt, some fine gravel, organic odor	
46.8		13	-SM		
77.6		14	РТ	MEADOW MAT	
94.6		15	المنتسلة الم	THE ASSTRAIGHT	



PROJECT NUMBER: 1114J01.19
PROJECT NAME: AOC 103 - Fire Pits

Former Port Reading Complex

CLIENT: Hess Corp.

ADDRESS: 750 Cliff Rd., Port Reading, NJ

**DRILLING DATE:** 1/8/20 **DRILLING COMPANY:** UTD

DRILLER: ET

**DRILLING METHOD:** HSA **TOTAL DEPTH:** 15'

LOGGED BY: KY DIAMETER: 2"

DTW: 3'
CASING: 2'

SCREEN: 13'

NOTES: Pre-cleared to 6' using hand auger. Did not observe any ash/burnt material.

PID (ppm)	Samples	Depth (ff)	Graphic Log	Material Description	Well Diagram
				ASPHALT HISTORIC FILL: Brown fine to coarse sand, some fine gravel and silt,	Grout
0.0		1		loose	Bentonite
0.0		2			
0.0		3	HF	<u>₹</u>	
0.0		4			
0.0		- 5		HISTORIC FILL: Dark brown/black fine to coarse sand and fine gravel, some silt, trace clay, petroleum-like odor	
22.8		6			
6.4				SILTY SAND: Dark brown fine to coarse sand and silt, some fine gravel, loose, petroleum-like odor, sheen on water	
21.7		7			
22.8					
23.5		8			Filter
21.8		_			Pack
27.7		9			
25.4					
26.5		10			
36.4			-SM		
56.3		11			
85.3		40			
36.4		12			
27.2		13			
20.9		13			
15.7 14.9		14			
11.5		14			
9.5		15			:: <b> </b>   ::



PROJECT NUMBER: 1114J01.19
PROJECT NAME: AOC 103 - Fire Pits

Former Port Reading Complex

**CLIENT**: Hess Corp.

ADDRESS: 750 Cliff Rd., Port Reading, NJ

**DRILLING DATE:** 1/8/20 **DRILLING COMPANY:** UTD

DRILLER: ET

**DRILLING METHOD:** HSA **TOTAL DEPTH:** 15'

LOGGED BY: KY DIAMETER: 2"

DTW: 3.5'
CASING: 2'
SCREEN: 13'

NOTES: Pre-cleared to 6' using hand auger. Did not observe any ash/burnt material.

					_
PID (ppm)	Samples	Depth (ft)	Graphic Log	Material Description	Well Diagram
				ASPHALT	Grout
0.0		1		HISTORIC FILL: Brown fine to coarse sand, some fine gravel and silt, loose, slight petroleum-like odor	Bentonite
0.0		2			
0.0		3		<u> </u>	
0.0		4	HF		
0.0		5			
0.0		6			
0.0		7			
0.0		8		SILTY SAND: Dark brown fine to medium sand, some silt and fine gravel, loose, slight petroleum-like odor	Filter Pack
0.0		9			
0.0		10		SILTY SAND: Brown fine to coarse sand and silt, some fine gravel, slight organic odor	
0.0		11	-SM		
0.0		12			
0.0		13			
0.0		14 15			
0.0		13	- <del></del>		



**PROJECT NUMBER:** 1114J01.19 **PROJECT NAME:** AOC 103 - Fire Pits Former Port Reading Complex

**CLIENT:** Hess Corp.

ADDRESS: 750 Cliff Rd., Port Reading, NJ

**DRILLING DATE:** 1/8/20 **DRILLING COMPANY:** UTD

DRILLER: ET
DRILLING METHOD: HSA
TOTAL DEPTH: 15'

LOGGED BY: KY
DIAMETER: 2"
DTW: 3.5'

CASING: 2' SCREEN: 13'

NOTES: Pre-cleared to 6' using hand auger. Did not observe any ash/burnt material. PID hits

appear to be		Torgamor			1
PID (ppm)	Samples	Depth (ft)	Graphic Log	Material Description	Well Diagram
				ASPHALT	Grout
0.0		1		HISTORIC FILL: Brown fine to coarse sand, some fine gravel and silt, loose, slight petroleum-like odor	Bentonite
0.0		2			
0.0		3	HF	<u>▼</u>	
0.0		4			
0.0		5		SANDY SILT: Black silt and fine sand, some clay, moist, soft	
0.0		6	-SM		
0.0		7	9. 8	GRAVELLY SAND: Brown fine to coarse sand and fine gravel, some silt, moist, petroleum-like odor	
0.0		8			Filter Pack
0.0		9			
0.0		10			
0.0		11	-GM		
0.0		12		GRAVELLY SAND: Gray fine to coarse sand and fine gravel, some silt, loose, wet	
17.5		13	0000		
64.2		14			
79.4		15	PT	MEADOW MAT	



PROJECT NUMBER: 1114J01.19
PROJECT NAME: AOC 103 - Fire Pits

Former Port Reading Complex

CLIENT: Hess Corp.

ADDRESS: 750 Cliff Rd., Port Reading, NJ

**DRILLING DATE**: 1/9/20 **DRILLING COMPANY**: UTD

DRILLING METHOD: H

**DRILLING METHOD**: HSA **TOTAL DEPTH**: 15'

LOGGED BY: KY
DIAMETER: 2"
DTW: 2.5'

CASING: 2' SCREEN: 13'

NOTES: Pre-cleared to 6' using hand auger. Did not observe any ash/burnt material. PID hits

Eppod: 10 b	e associated with	1			
PID (ppm)	Samples	Depth (ft)	Graphic Log	Material Description	Well Diagram
			000	GRAVEL	Grout
0.0		1		HISTORIC FILL: Brown fine to coarse sand, some fine gravel and silt, loose	Bentonite
0.0		2		<u>▼</u>	
0.0		3	HF		
0.0		4			
0.0		5		CLAYEY SILT: Dark brown/black silt, some clay, wet, soft, organic odor	
0.0		6	-OL		
0.0		7			
0.0		8		SILTY SAND: Dark brown fine to coarse sand, some silt and fine gravel, loose	Filter Pack
0.0		9		SILTY SAND: Brown fine to coarse sand, some silt and fine gravel, loose	
0.0		10			
0.0		11	-SM		
0.0		- 12 - 13			
36.4		14			
43.5		15	PT	MEADOW MAT	
					Page 1 of 1



PROJECT NUMBER: 1114J01.19
PROJECT NAME: AOC 103 - Fire Pits

Former Port Reading Complex

**CLIENT**: Hess Corp.

ADDRESS: 750 Cliff Rd., Port Reading, NJ

**DRILLING DATE:** 1/9/20 **DRILLING COMPANY:** UTD

DRILLER: ET
DRILLING METHOD: HSA
TOTAL DEPTH: 15'

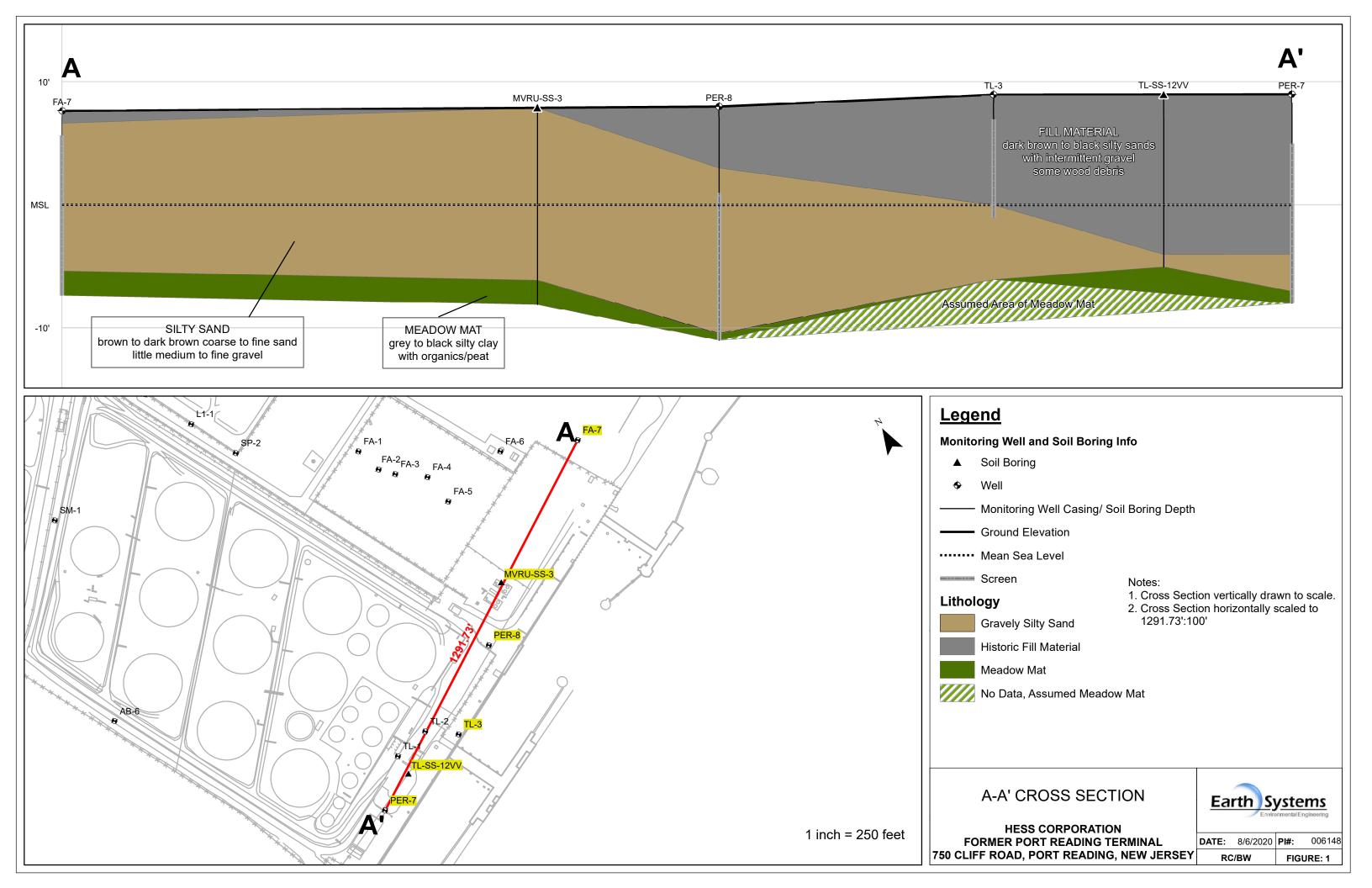
LOGGED BY: KY
DIAMETER: 2"
DTW: 2.5'

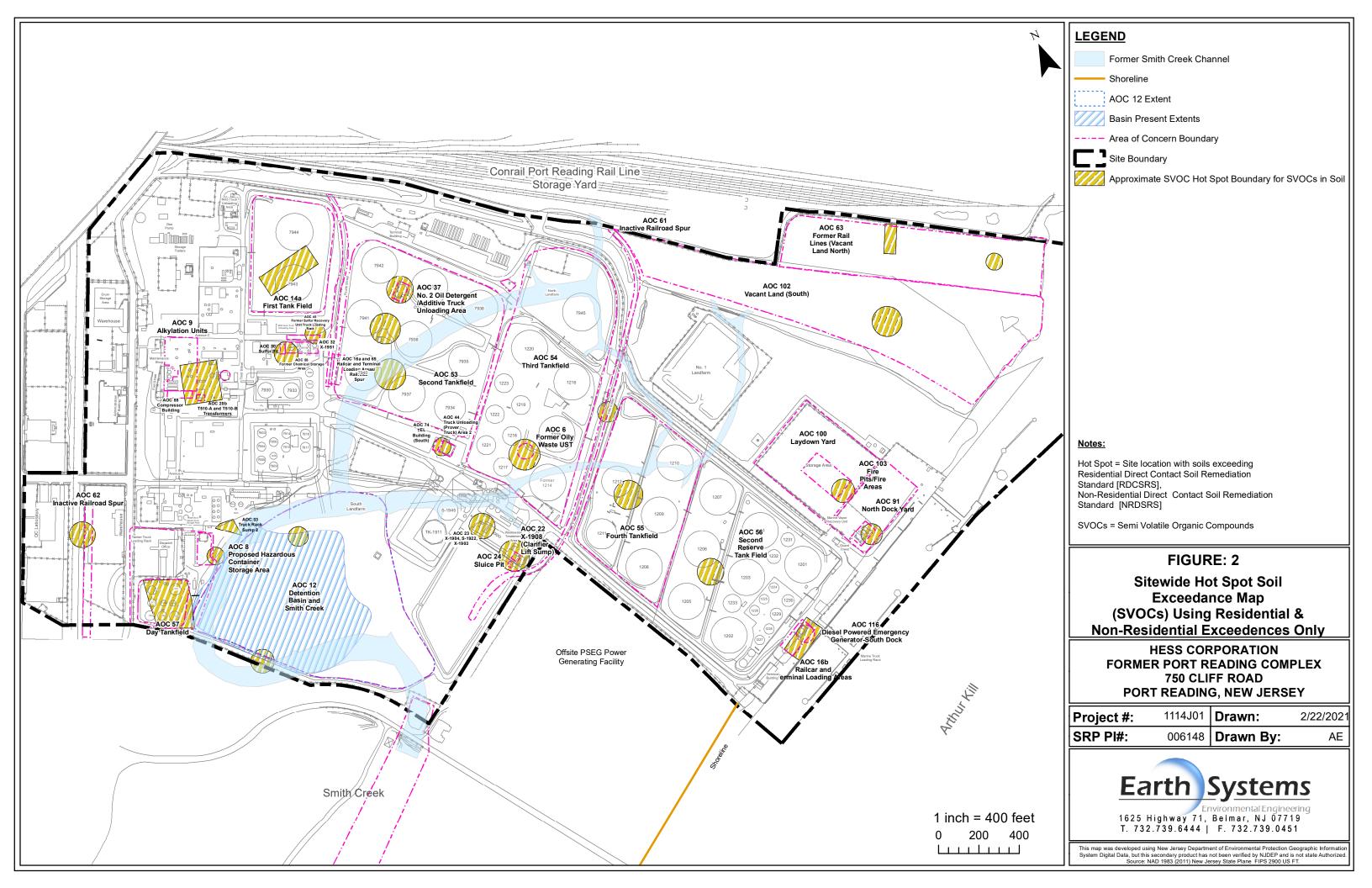
CASING: 2' SCREEN: 13'

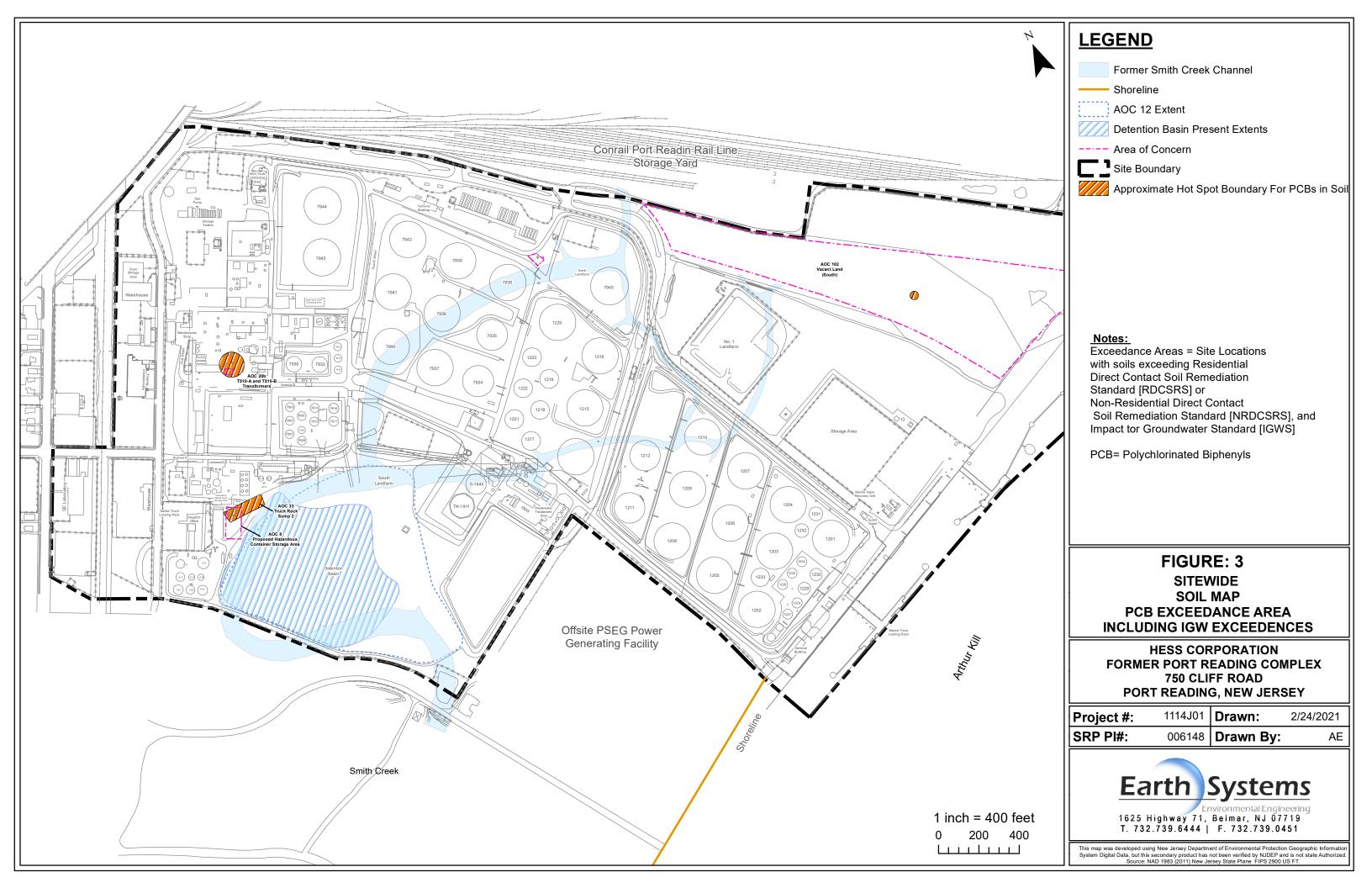
NOTES: Pre-cleared to 6' using hand auger. Did not observe any ash/burnt material. PID hits

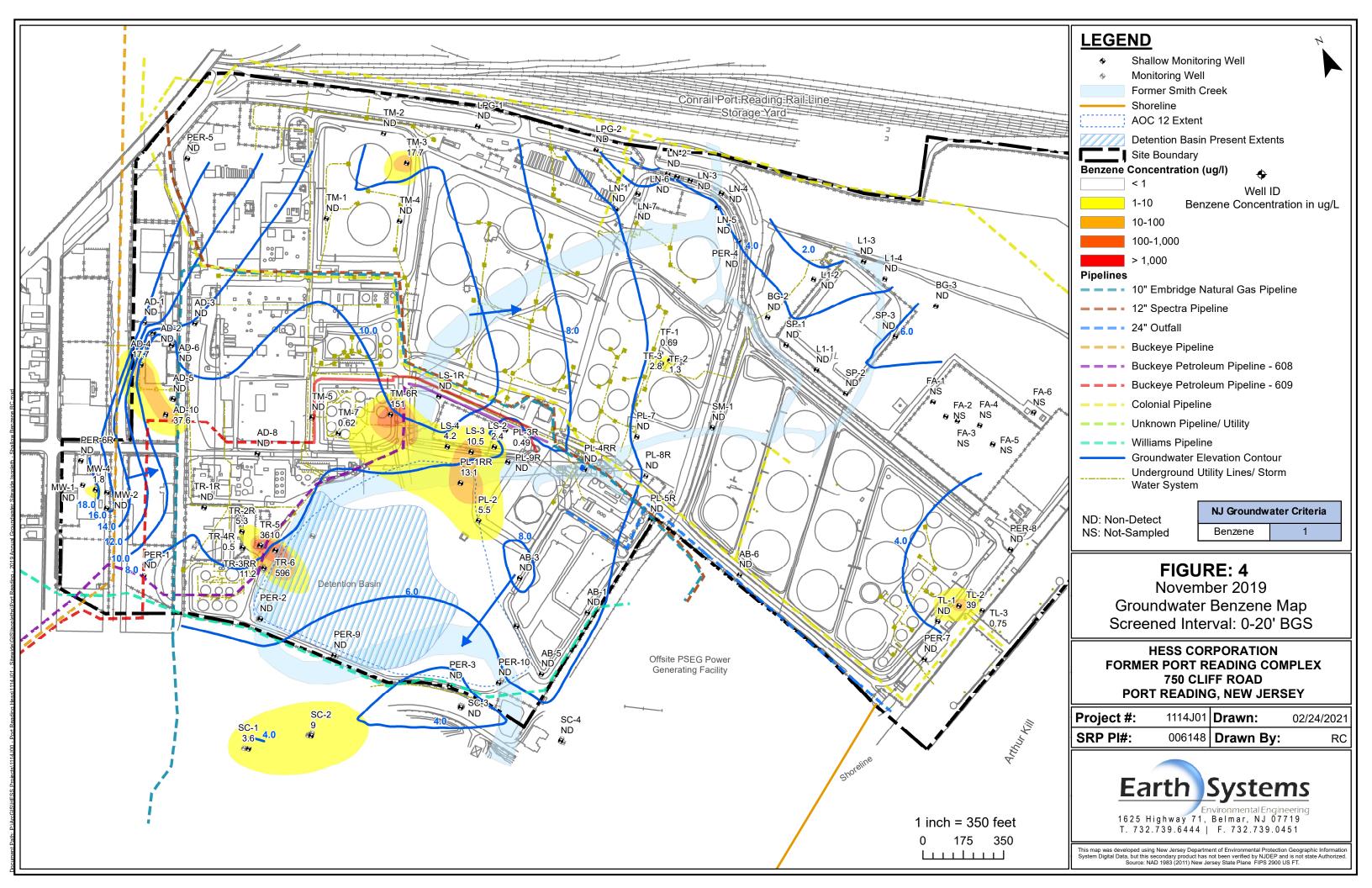
Material Description  Well Diagram  HISTORIC FILL: Brown fine to coarse sand, some fine gravel and silt, loose  HISTORIC FILL: Brown fine to coarse sand, some fine gravel and silt, loose  HISTORIC FILL: Brown fine to coarse sand, some fine gravel and silt, some fine gravel, loose  SILTY SAND: Brown fine to coarse sand and silt, some fine gravel, loose  SILTY SAND: Dark brown fine to coarse sand and silt, some fine gravel, loose, organic odor  SILTY SAND: Dark brown fine to coarse sand and silt, some fine gravel, loose, organic odor  GRAVELLY SILTY SAND: Dark brown fine to coarse sand, silt and fine gravel, loose, organic odor
0.0
10.7  46.0  14  MEADOW MAT  MEADOW MAT

# **APPENDIX B**









# **APPENDIX C**

# **QUALITY ASSURANCE PROJECT PLAN**

Hess Corporation – Former Port Reading Complex (HC-PR or Site)
750 Cliff Road,
Port Reading, Middlesex County, New Jersey
NJDEP PI# 006148
ISRA Case No. E20130449
EPA ID No. NJD045445483

# PREPARED FOR:

Hess Corporation Trenton-Mercer Airport 601 Jack Stephan Way West Trenton, New Jersey 08628

# PREPARED BY:



March 2021

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Shalini Williams, SGS North America, Inc. 2235 Route 130
Dayton, New Jersey 732-355-4551
Shalini.Williams@sgs.com

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#### INTRODUCTION

This Quality Assurance Project Plan (QAPP) was prepared by Earth Systems, Inc. (Earth Systems) for Hess Corporation, who is conducting remedial investigation (RI) activities at the Former Port Reading Complex located at 750 Cliff Road, Woodbridge Township, Middlesex County, New Jersey (Property or site) as shown in **Figure 1**.

The purpose of this QAPP is to ensure that scientific data are acquired according to established methods and procedures designed to obtain results that are objective, true, repeatable, and of known accuracy. Specifically, this QAPP provides guidance and specifications to ensure that RI activities are planned and executed in a manner consistent with the Quality Assurance Objectives (QAO's) stated below:

- Field determinations and analytical results are valid through adherence to New Jersey Department of Environmental Protection (NJDEP) field procedures, NJDEP-approved analytical protocols, and calibration and preventive maintenance of equipment;
- Samples are identified and controlled through sample tracking systems and chain of custody procedures;
- Records are retained as documentary evidence of field activities and observations;
- Samples are collected and analytical data are validated in accordance with the NJDEP requirements; and
- Evaluations of the data are accurate, appropriate, and consistent throughout the project.

The contents of this QAPP are based on the NJDEP requirements as stated in the NJDEP Technical Requirements for Site Remediation and the Quality Assurance Project Plan Technical Guidance (Version 1.0, April 2014). This QAPP includes the following components:

- Problem Definition/Background;
- Project/Task Description;
- Project/Task Organization;
- Data Quality Objectives and Criteria for Measurement Data;
- Historical and Secondary Information/Data;
- Investigative Process Design;
- Field Instrumentation/Equipment Calibration and Frequency;
- Inspection/Acceptance of Supplies and Consumables;
- Sample Handling and Custody Requirements;
- Field Storage and Transport Procedures;
- Sample Containers, Preservation, and Holding Times;
- Analytical Methods Summary Table;
- Project Compounds and Analytical Summary;
- Analytical Quality Control;
- Laboratory Deliverables:
- Data and Records Management;
- Data Verification and Usability; and
- Corrective Action Processes.

As specific conditions and additional information warrant, this QAPP will be amended or revised to include site-specific quality assurance/quality control procedures.

# Quality Assurance Project Plan (QAPP) Former Port Reading Complex 750 Cliff Road Woodbridge, Middlesex County, New Jersey

#### 1. Project Definition / Background

#### **Project Definition**

On behalf of Hess Corporation (Hess), Earth Systems, Inc. (Earth Systems) has prepared this QAPP for the Marine Loading Dock Area (see RIW for specific AOCs) located at the Hess Corporation Former Port Reading Complex (HC-PR), 750 Cliff Road, Port Reading (Woodbridge Township), Middlesex County, New Jersey (Site). The purpose of the RIW is to determine the nature and extent of contaminants associated with the specified AOCs.

The overall project goals and objectives are summarized below:

- Soil Investigation
- Groundwater Investigation
- Surface Water & Sediment Investigation

The analytical data shall be used to determine if further soil and groundwater investigation is required. These decisions shall be made following receipt of all analytical data associated with the investigation. Data users for the project include the person responsible for conducting the remediation, the environmental consultant, and ultimately, the NJDEP and USEPA.

#### 2. Project / Task Description

## Soil Investigation

A series of soil borings will be installed throughout the AOCs. The soil boring locations will be installed to complete the required delineation of PA/SI soil samples.

Each soil boring will be completed using a hand-auger/air knife equipment to 6 to 8 feet below grade. Once a depth of 6 to 8 feet is achieved, a Geoprobe will be used to install the soil boring to the proposed final depth. The proposed soil boring locations are summarized on Table 1. The locations of the proposed borings are illustrated on the attached **Figure 2, 3, and 4**. If additional delineation is necessary, supplemental soil borings will be installed as appropriate.

Soil borings will be field screened with a calibrated photoionization detector (PID) and lithology will be logged in a dedicated field book. One (1) soil sample will be collected for approximately every 6 feet of the soil column, biased toward any indications of impacts. The soil analyses for each AOC are summarized on **Table 1**.

# **Groundwater Investigation**

A summary of the proposed permanent monitoring wells is provided below:

AOC	Well ID	Well Depth
AOC 16b	TL-4	15'
AOC 16b	TL-5	15'
AOC 85	MRVU-1	15'
AOC 85	MRVU-2	15'
AOC 100/103	FA-8	15'
AOC 100/103	FA-9	15'
AOC 100/103	FA-10	15'
AOC 100/103	FA-11	15'
AOC 100/103	FA-12	15'
AOC 100/103	FA-13	15'
AOC 100/103	FA-14	15'
AOC 100/103	FA-15	15'
AOC 100/103	FA-16	15'
AOC 100/103	FA-17	15'
AOC 100/103	FA-18	15'
AOC 100/103	FA-19	15'
AOC 100/103	FA-20	15'

A temporary well point will be installed in AOCs 51, 91, and 115 to assess potential groundwater impacts for these AOCs. The locations of the proposed temporary well points are illustrated on **Figure 5**.

Upon sampling of the monitoring wells and an evaluation of the analytical results, intermediate or deep wells may be installed to complete vertical delineation if warranted. A data review and presentation of proposed new wells (if warranted) will be discussed with NJDEP and USEPA (in a forum to be determined) to allow for delineation to be expedited, rather than preparing and submitting a new workplan for the delineation effort. The locations of the proposed permanent monitoring wells are illustrated on **Figure 5**.

#### Surface Water & Sediment Investigation

As part of the Sitewide Ecological Evaluation (EE), potential contaminant migration pathways to the Arthur Kill need to be evaluated. Potential migration pathways include historical industrial wastewater discharges, surface water and overland flow, diffuse flow of shallow groundwater, and historic releases. Therefore, the collection of sediment and surface water samples along the Arthur Kill is recommended.

• Sediment and surface water sampling will be conducted utilizing the same protocols that were used when sampling Smith Creek and the onsite Detention Basin

- Sampling will be conducted at low tide
- Sediment samples will be collected from fifteen (15) locations and surface water samples will be collected from eight (8) locations along the Arthur Kill (**Figure 6**)
- Sediment samples will be collected utilizing a Vibracore device to approximately 10-feet below the sediment bed
- Sediment samples will be collected at 3 depths [surface (0 to 6 inches), near surface (6 to 12 inches), and biased towards any indications of impacts
- Surface water samples will be collected approximately 1-foot from the river bottom via direct grab
- Surface water samples will be collected prior to sediment samples to minimize disturbance of the samples
- Additional sediment and surface water samples will also be collected from reference locations both upriver and downriver of the Site

The applicable regulatory quality standards to this phase of investigation are:

- o NJDEP Residential and Non-Residential Soil Remediation Standards (SRS)
- o NJDEP Default Impact to Groundwater Soil Screening Levels (IGWSSL)
- o NJDEP Ground Water Quality Standards (GWQS)
- o NJDEP Ecological Screening Criteria

# 3. Project / Task Organization

The NJDEP's "Quality Assurance Project Plan Technical Guidance" recommends that the QAPP include an organizational chart identifying key personnel and/or organizations showing relationships and lines of communication. As stated in Section 5 of the guidance, not all elements of the QAPP may need the same level of detail, which should be based on a graded approach depending on the complexity of the project and the intended use of the data. In this regard, since the number of personnel and organizations is relatively small, the relationships can be described rather than depicted in a chart.

#### Project Team

The Licensed Site Remediation Professional (LSRP) is John Virgie of Earth Systems. He also serves as the central point of communication with all other individuals and organizations associated with this project. He is responsible for implementing the Quality Assurance Project Plan and coordinating the site investigation activities. He can be reached at (732) 739-6444, extension 2304 or via email at <a href="mailto:jvirgie@earthsys.net">jvirgie@earthsys.net</a>.

The Health and Safety Officer for Earth Systems is Michael Piegaro. He can be reached at (732) 739-6444, extension 2307 or via email at mpiegaro@earthsys.net.

The Senior Project Manager is Amy Blake of Earth Systems. She is responsible for coordinating the site investigation activities in the field and tabulating/interpreting the analytical data once received. She can be reached at (732) 739-6444 or via email at <a href="mailto:ablake@earthsys.net">ablake@earthsys.net</a>.

The well installation contractor utilized will be Uni-Tech Drilling Company, 49 Old York Road, Bridgewater, New Jersey 08807. The contact is Greg Adams who can be reached at (908) 725-7500 or via email at greg@unitechdrilling.com.

The analytical laboratory that will be utilized is SGS North America, 2235 Highway 130, Dayton, New Jersey 08810. The laboratory contact is Ms. Shalini Williams, Project Manager, who can be reached at 732-355-4551.

# **Special Training Needs/Certification**

Training needs and certifications of field oversight include requirements to have completed the OSHA 40-Hour training with annual 8-hour refresher training in accordance with 29 CFR 1910.120 (Hazardous waste operations and emergency response). In addition, site workers must have a TWIC card and at least one person on-site must have completed Buckeye Person-In-Charge (PIC) training.

Operators of soil borings well installation equipment shall have completed training specific to the equipment used. Such training should include classroom and field instruction. The individual conducting borings and well installations shall be licensed in accordance with N.J.A.C. 7:9D.

The remedial investigation activities are being conducted under the oversight of an LSRP.

Special training is required to operate laboratory equipment and conduct laboratory analyses. Laboratory certification is established at N.J.A.C. 7:18.

# 4. Data Quality Objectives and Criteria for Measurement Data

Data quality objectives ("DQOs") are qualitative and quantitative statements that are developed in the first six (6) steps of the DQO process. DQOs define the purpose of the data collection effort, clarify what the data should represent to satisfy this purpose, and specify the performance requirements for the quality of information to be obtained from the data.

In accordance with Section 5.4 of the NJDEP's "Quality Assurance Project Plan" technical guidance, the development of the data quality criteria can be developed through the formal DQO process described in the EPA document titled "Guidance for the Data Quality Objectives Process", EPA/600/R-96/055. For most projects, however, a less iterative process is normally used to develop the project-specific DQOs.

Data of Known Quality Protocols ("DKQP") describe specific laboratory quality assurance and quality control procedures which, if followed, will provide data of known and documented quality (i.e. scientific reproducible and reliable data). When data of known quality ("DKQ") is obtained, an evaluation of the data with respect to its intended purpose can be made. To this end, a NJDEP-certified laboratory must be used to analyze samples whenever possible.

Typical DQOs are often expressed in terms of data quality indicators ("DQIs") including precision, accuracy, representativeness, comparability, completeness and sensitivity (also known as the "PARCCS" parameters). These measures of performance are discussed in detail below.

#### Precision

Precision is the measure of agreement among repeated measurements of the same property under identical or substantially similar testing conditions. The investigator will determine the precision of the data by:

- Using the same analytical methods to perform repeated analyses on the same sample (laboratory or matrix duplicates);
- Collection of a field duplicate and submittal of both to evaluate the precision from sample collection, for sample handling, preservation and storage and analytical measurements

Precision for laboratory and field measurements can be expressed as the relative percent difference ("RPD") between two duplicate determinations or percent relative standard deviation ("%RSD") between multiple determinations.

Acceptance criteria for field precision shall be assessed through the splitting of a sample in the field and submitting both to the laboratory. Field duplicates will be collected at a frequency of one (1) per twenty (20) investigative samples per matrix per analytical parameter. Precision will be measured through the calculation of RPD. The resulting information will be used to assess sample homogeneity, spatial variability at the site, sample collection reproducibility, and analytical variability.

#### Accuracy

Accuracy is the degree of agreement of a measured value and an accepted reference or true value. The difference between the measured value and the reference or true value includes components of both systematic error (bias) and random error (precision). It should be noted that precise data may not be accurate data. Accuracy can be expressed as a percent recovery or percent deviation of the measurement with respect to its known or true value.

The accuracy will be determined through establishing acceptance criteria for spike recoveries (e.g., surrogate recoveries, laboratory control sample recoveries, matrix spike recoveries, reference material recoveries etc.) or allowable deviations for calibration (e.g., %RPD for calibration verification). Acceptance criteria for matrix spike measurements are expressed as a percent recovery and are usually specified in the analytical method (or laboratory SOP, as applicable). Various blank samples (laboratory or field) may also be used to assess contamination of samples that may bias results high. Accuracy in the field shall be assessed through the adherence to sample collection, handling, preservation, and holding time requirements.

#### Representativeness

Representativeness is a qualitative measurement that describes the extent to which analytical data represent the site conditions. In almost every project, the investigator will not be able to measure the whole system, process, or situation of interest. Instead, the investigator will choose sample locations, quantities, and analyses in order to capture a sufficiently broad and/or weighted view of the situation.

Representativeness in the laboratory is ensured by using the proper analytical procedures, appropriate methods, and meeting sample holding times. Following the detailed requirements outlined in the EPA methods and the laboratory SOPs will maximize the representativeness of the laboratory data.

#### Comparability

Comparability is a qualitative term that expresses the degree to which data accurately and precisely represents a characteristic of a population, parameter variations at a sampling point, a process condition, or

an environmental condition. Comparability is defined as the extent to which data from one data set can be compared directly to similar or related data sets and/or decision-making standards.

Historical data should be evaluated to determine whether they may be combined with data being collected in present time. Comparability should discuss comparisons of sample collection and handling methods, sample preparation, and analytical procedures, holding times, stability issues and QA protocol.

Comparability in the laboratory is dependent on the use of recognized methods and approved laboratory SOPs. Comparability in the field is dependent upon adherence to the sampling methodology and that the proper preservation techniques are used.

# Completeness

Completeness is a measure of the amount of usable data collected compared to the amount of data expected to be obtained. Three measures of completeness are defined as:

- Sampling completeness, defined as the number of valid samples collected relative to the number of samples planned for collection;
- Analytical completeness, defined as the number of valid sample measurements relative to the number of valid samples collected; and
- Overall completeness, defined as the number of valid sample measurements relative to the number of samples planned for collection.

# Sensitivity

Sensitivity refers to the ability of an analytical procedure to quantify an analyte at a given concentration. The sensitivity requirements should be established such that the laboratory method Reporting Limits ("RLs") are at or below the relevant and applicable regulatory limits for each Contaminant of Concern ("COC") for the project. For the purpose of SRP projects:

- The RL for a specific substance when determining the extent and degree of polluted soil, groundwater, or sediment from a release. For the purpose of this document, the RL is defined as:
  - o Organics, the lowest initial calibration standard as adjusted for the dilution factor, sample weight/volume, and moisture content;
  - o Inorganics, the concentration of that analyte in the lowest level check standard (which could be the lowest calibration standard in a multi-point calibration curve).

Methods for analysis have been chosen to meet the sensitivity requirements for a project (e.g., compound-specific and matrix-specific). If however, the laboratory RLs exceed the project sensitivity requirements (i.e., the RL is above the relevant and applicable regulatory standard), the analytical methods may need to be adjusted (e.g., analysis conducted using a more sensitive method or sample preparation and analysis features adjusted to gain sensitivity) and/or the project objectives may need to be adjusted (i.e., certain COCs may not be able to be screened out during this phase of the evaluation).

# 5. Historical and Secondary Information / Data

The potential sources of data for any project include both historical data (i.e. data not collected by the current investigator) and secondary data (i.e. data that were collected for a different purpose than that for which they are now being used). Historical data should be evaluated for applicability to current project objectives. Secondary data should be assessed to determine if the quality of the data is sufficient for the

current project objectives and meets comparability criteria (it is not sufficient that the secondary data were produced by a reliable source or a known environmental monitoring project with an approved QAPP).

### 6. Investigation Process Design

A description and justification of the investigation design should include, for each area of interest:

- The COCs or other parameters of interest
- The number of anticipated investigation points and how and why they will be selected including a site map depicting proposed sample locations
- o Method of obtaining/determining locational information (such as the use of GPS instrumentation)
- o Factors which could affect the variability of the data such as physical obstructions, seasonal variations, tidal influences, soil profile changes, weather-related variation, and process variation within the source
- O Design basis i.e. probability based or judgment based
- o Results comparison (i.e. versus previous data, regulatory standards, reference population, etc.)
- o Matrices to be monitored including any special sampling requirements
- o Monitoring frequency (if applicable)
- o Heterogeneity or homogeneity of the matrix
- o Appropriateness of composite samples
- o Required quality control samples

The investigative process design is based generally on the following:

- o The NJDEP's "Technical Guidance for Site Investigation of Soil, Remedial Investigation of Soil, and Remedial Action Verification Sampling for Soil", Version 1.2, dated March 2015.
- o The NJDEP's "Ground Water Technical Guidance: Site Investigation, Remedial Investigation and Remedial Action Performance Monitoring", dated August 3, 2012.
- o The NJDEP's "Field Sampling Procedures Manual", dated August 2005 ("FSPM").
- o The Technical Requirements for Site Remediation N.J.A.C. 7:26E.

# 7. Field Quality Control

Field quality control activities, along with their frequency, acceptance criteria, and corrective actions to be taken are provided for each DQI in the following table.

Analyte(s)	DQI	Data Quality Element	Frequency of Collection	Acceptance Criteria	Corrective Action(s)
VOCs	Accuracy and Sensitivity	Field Blank	10% of the total number of samples per event	Analytes < RL	Qualify sample data associated with field blank for any analyte < 10x TB
VOCs	Accuracy	Trip Blank	One (1) per cooler for VOCs	Analytes < RL	Qualify sample data associated with trip blank for any analyte > RL
All	Representativeness & Precision	Field Duplicate	One (1) per 20 samples per matrix per analyte	<50% RPD for non-aqueous matrix; <30% RPD for aqueous matrix	Possible rejection of data

All COCs being investigated with non-dedicated equipment	Accuracy and Sensitivity	Equipment Rinsate Blank	One (1) per 20 samples with non-dedicated equipment	Analytes < RL	Qualify sample data associated with trip blank for any analyte > RL
VOCs	Representativeness,	Cooler	One (1) per	4°C +/- 2°C	Possible
	Accuracy & Completeness	Temperature	cooler	4 0 +/- 2 0	rejection of data

Methods of field equipment cleaning / decontamination, if required (i.e. if non-dedicated sampling equipment is used), are specified in FSPM Section 2.4. If field equipment cleaning / decontamination is conducted, then an equipment blank sample shall be collected in accordance with FSPM Section 9.11.2. Analysis of the equipment blank sample shall be for the COCs being investigated that day with that equipment.

# 8. Field Instrumentation / Equipment Calibration and Frequency

Field instrumentation/equipment that will require calibration includes a photoionization detector (PID) and water quality meter. Calibration and routine maintenance procedures are presented in the User's Manual. Documentation of the maintenance and calibration records is stored at the office or in the field logbook.

# 9. Inspection / Acceptance of Supplies and Consumables

Critical supplies or consumables (e.g., pre-cleaned containers, pre-preserved containers, tubing, etc.) shall be inspected for visible indications of contamination and damage and, if none are identified, then the supplies/consumables shall be accepted for use.

#### 10. Sample Handling and Custody Requirements

Sample handling shall be as specified in Section 2.5.5.1 of the FSPM and Section 4.6.2.2 of the NJDEP's "Data Quality Assessment and Data Usability Evaluation Technical Guidance", Version 1.0, dated April 2014. Specifically, samples shall be maintained on-site for no more than two (2) consecutive days, and shall be delivered to the laboratory within one (1) day of shipment from the field.

The chain of custody procedure to be utilized in the field is specified in Section 2.3.6 of the FSPM. The chain of custody procedure to be used in the laboratory shall be in accordance with Section 2.3.6 of the FSPM as well as the laboratory's standard operating procedure.

#### 11. Field Storage and Transport Procedures

Sample storage in the field shall include immediate preservation after collection. Once the sample is transferred into the appropriate container, the canister shall be capped. The sample shall be properly labeled, properly packaged for transportation and custody sealed. Information such as sample number, location, collection time and sample description shall be recorded in the field logbook. Associated paperwork (e.g., Chain of Custody forms, Sample Analysis Request forms) shall then be completed and shall stay with the sample. The samples shall be packaged in a manner that will allow the appropriate storage temperature to be maintained during shipment to the lab. Samples shall be delivered to the lab so the proper temperature level is assured and analytical holding times are not exceeded.

## 12. Sample Containers, Preservation, and Holding Times

Sample containers, preservation, and holding times are specified on **Table 1**.

#### 13. Analytical Methods Summary Table

Analytical methods are summarized on **Table 1**.

# 14. Project Compounds and Analytical Summary

The project action limits are the NJDEP's Soil Remediation Standards (SRS), Impact to Groundwater Soil Screening Level (IGWSSL), Groundwater Quality Standards (GWQS). The analytical methods chosen can meet the DQOs of the project.

Analytical sensitivity requirements include the use of instruments or methods to detect the contaminants of concern at or below the action limits. The RLs are expected to be below the applicable regulatory standards. NJDEP and EPA methods were selected to achieve the action limits. Laboratories may need to adjust RLs based on dilutions, sample sizes, extract/digestate volumes, percent solids and cleanup procedures. Sensitivity will be maximized by following the NJDEP and EPA methods or laboratory SOPs utilizing experienced, trained laboratory personnel and by conducting laboratory audits.

# 15. Analytical Quality Control

Quality assurance and quality control ("QA/QC") requirements for analysis are specified in the most recent version of the document titled "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", prepared by EPA. The laboratory may also have QA/QC procedures in addition to those specified by the test method (**Appendix 1**).

# 16. Laboratory Deliverables

The laboratory deliverable format to be used for this project shall be the reduced laboratory deliverable format as described in Appendix A of N.J.A.C. 7:26E. The laboratory shall also generate Hazsite files and spreadsheets of the analytical results.

#### 17. Data and Records Management

The recording media for the project will be both paper and electronic. The project will implement proper document control procedures for both, consistent with NJDEP's Quality Management Plan. For instance, hand-recorded data records will be taken with indelible ink, and changes to such data records will be made by drawing a single line through the error with an initial by the responsible person. The Project Manager will have ultimate responsibility for any and all changes to records and documents. Similar controls will be put in place for electronic records.

The Quality Assurance Coordinator shall retain all updated versions of the QAPP and be responsible for distribution of the current version of the QAPP. The Quality Assurance Coordinator and the Project Manager will approve periodic updates. The Project Manager shall retain copies of all management reports, memoranda, and all correspondence between the parties identified in Section 3.

Project data shall be stored in the Project Manager's office. Laboratory records management is described in Appendix 1.

# 18. Data Verification and Usability

The procedure for review (verification and usability procedures) including data assessment versus stated data quality objectives of the investigation is specified in the NJDEP's "Data Quality Assessment and Data Usability Evaluation Technical Guidance", Version 1.0, dated April 2014.

#### 19. Corrective Action Processes

Corrective action in the field may be needed when the work plan is modified (i.e. number or locations of samples) or when sampling procedures and/or field analytical procedures require modification due to unexpected conditions. The corrective action may be implemented at the time the determination is made in the field or may be implemented later, depending on the circumstances. Any corrective actions taken shall be documented in the field logbook and in the technical report.

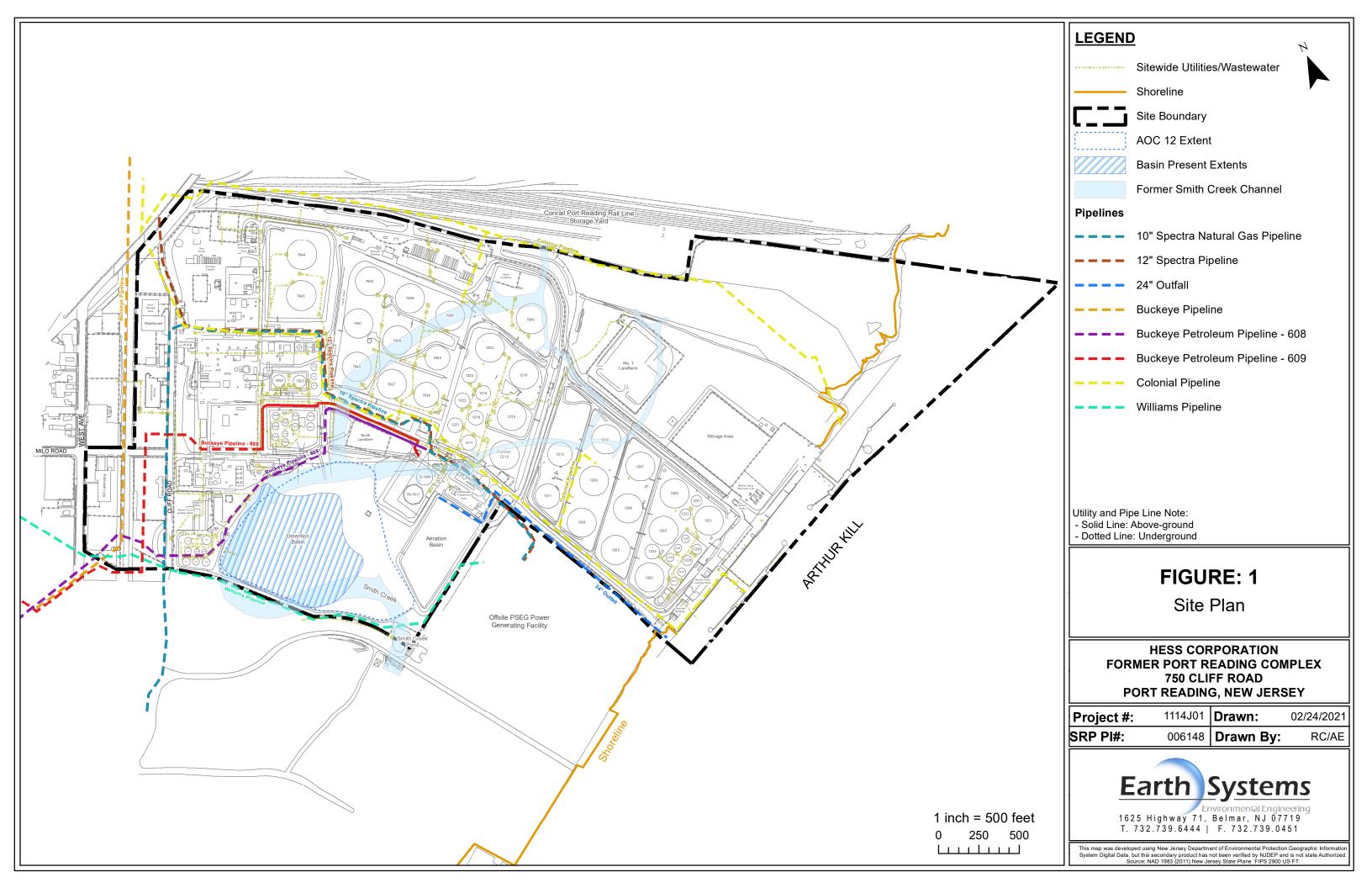
Corrective actions in the laboratory may be needed when Non-Conformances occur. The laboratory shall implement and document corrective actions in accordance with the laboratory Quality Systems Manual (**Appendix 1**).

# Table 1: Analytical Methods / Quality Assurance Summary Table

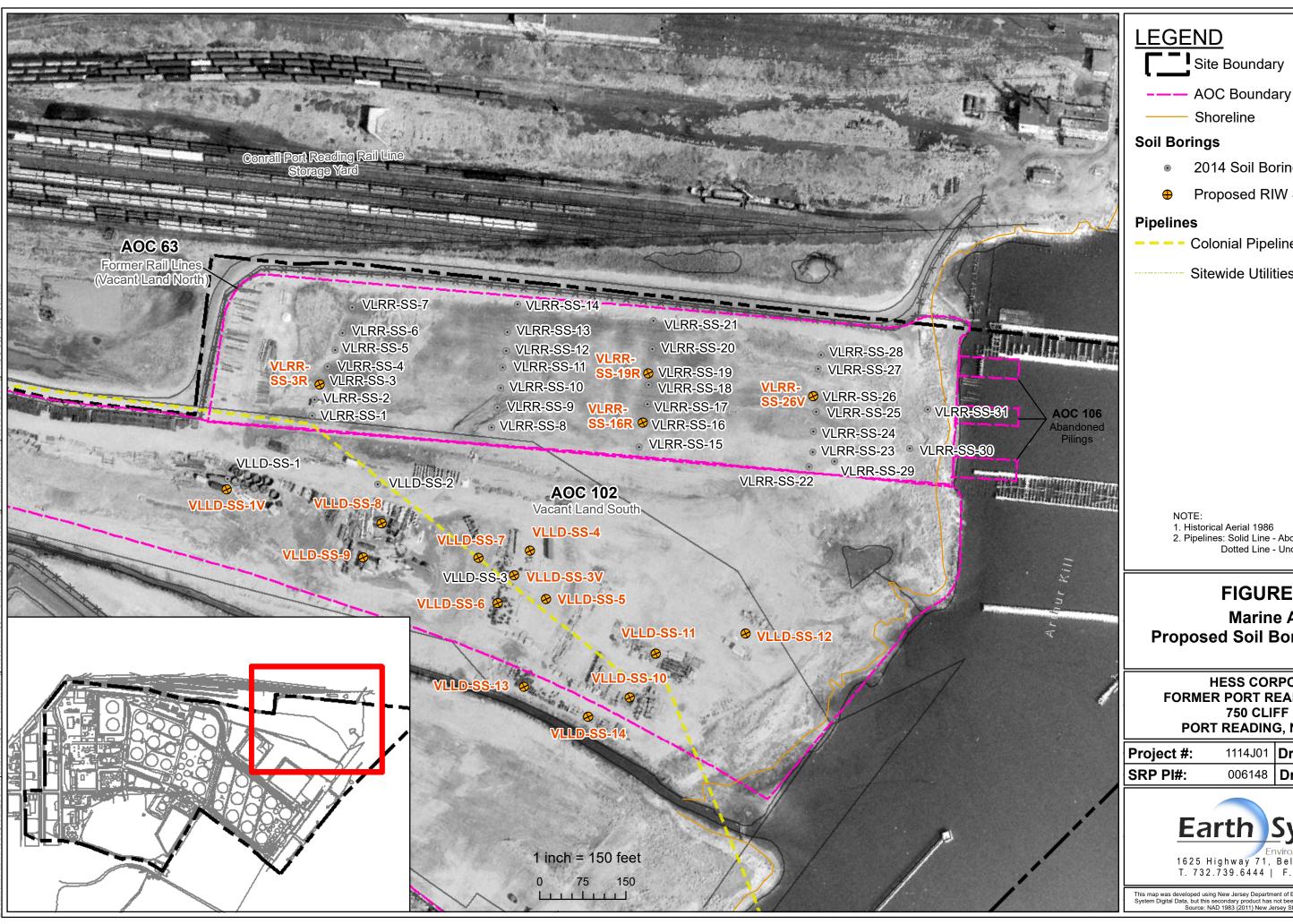
TABLE 1 Analytical Methods/Quality Assurance Summary Table								
Matrix type	Number of Samples	Numbe r of Blanks	Number of Duplicate s	Analytical Parameters	Analytical Methods	Sample Preserva tion	Sample Container & Volume	Permissible Holding Time
Soil	20 - 40	1 trip blank per day	1	Volatile Organic Compounds	8260C	4 degrees C methanol	Encore 5 gram x 3	14 days
Soil	10	0	1	Semi-Volatile Organic Compounds	8270C	4 degrees C	8 ounces	14 days
Soil	5	0	0	PCBs	8082	4 degrees C	Clear glass, 4 ounces	14 days
Soil	11	0	0	TAL Metal	6010	4 degrees C	Clear glass, 8 ounces	14 days
Soil	17	0	0	EPH	NJ EPH	<6 degrees C, HC to pH<2	Amber glass, 4 ounce	14 days
Soil	12	0	0	PFAs	537MOD	None	Clear glass, 4 ounce	14 days
Groundwat er	20	1 field blank, 1 trip blank	0	Volatile Organic Compounds	8260	4 degrees C, HCl	Clear glass 40 mL	14 days
Groundwat er	20	1 field blank	0	Semi-Volatile Organic Compounds	8270	4 degrees C	Amber Glass 1 L w/ TFE lined cap	7 days to extract
Groundwat er	20	1 field blank	0	TAL Metals, Ammonia	6020A	4 degrees C, HNO <sub>3</sub>	0.5 L plastic	180 days
Groundwat er	16	1 field blank	0	PFAs	537MOD	None	2 x 250 ml	14 days
3.		DIGITIC						

TABLE 1 Analytical Methods/Quality Assurance Summary Table								
Matrix type	Number Of Samples	Numbe r of Blanks	Number of Duplicates	Analytical Parameters	Analytical Methods	Sample Preservation	Sample Container & Volume	Permissible Holding Time
Sediment	15	1 per day of sampling	0	Extractable Petroleum Hydrocarbons	NJ EPH	<6°C HC to pH<2	1x4 ounce clear	14 days
Sediment	15	1 per day of sampling	0	Volatile Organic Compounds	8260C	4°C methanol	EnCore	14 days
Sediment	15	1 per day of sampling	0	Base Neutrals	FW846 SW846, 8270D	4°C N/A	8 oz.	14 days
Sediment	15	1 per day of sampling	0	Metals	SW846 7470A/ SW846 6010C	4°C N/A	8 oz.	28 for Mercury/ 6 months
Sediment	15	1 per day of sampling	0	Total Organic Carbon (Lloyd Kahn)	Lloyd Kahn 1998	4°C N/A	8 oz.	14 days
Sediment	15	1 per day of sampling	0	Grain Size	422-63	N/A	950 ml Amber Glass	N/A
Surface Water	15	1 per day of sampling	0	Volatile Organic Compounds	8260	4°C, HCl	Clear glass 40 ml	14 days
Surface Water	15	1 per day of sampling	0	Metals	SW846/6010	HNO3 to pH<2	500-ml Amber	6 months
Surface Water	15	1 per day of sampling	0	Base Neutrals	8270	<6°C	2 x 1000- ml Amber	7 days extraction/40 days holding time
Surface Water	15	1 per day of sampling	0	Ammonia, chloride, Nitrates	D422-63 20 4500 CL-C EPA 353.2	HNO3 N/A N/A	Plastic 500 ml Plastic 250 ml Plastic 250 ml	180 days 14 days 25 days

Figure 1: Site Location Map



Figures 2, 3, 4, 5, & 6: Proposed Soil Borings Well Locations





Shoreline

- 2014 Soil Borings
- Proposed RIW Soil Borings

**Colonial Pipeline** 

Sitewide Utilities

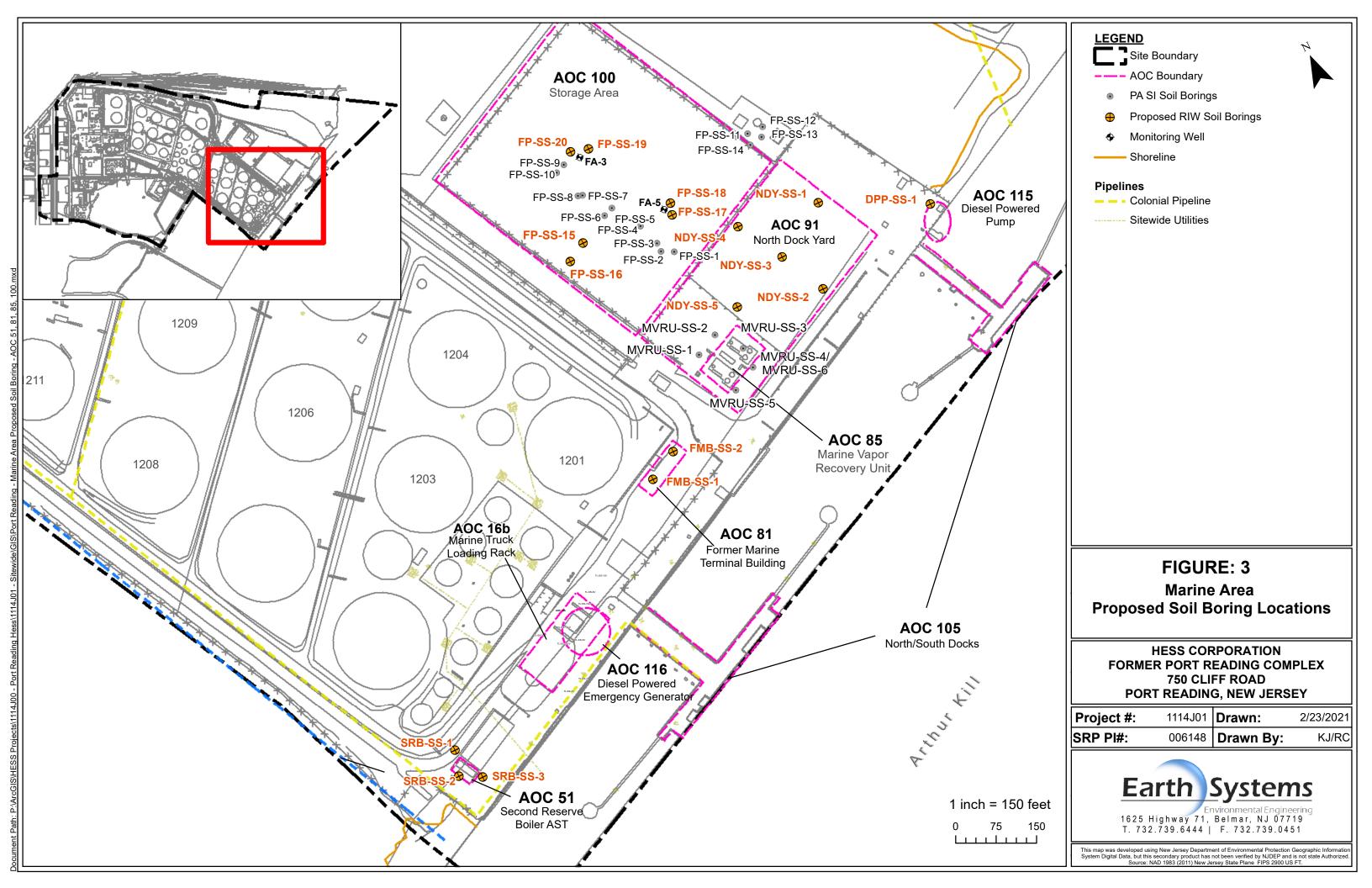
- 1. Historical Aerial 1986
- 2. Pipelines: Solid Line Aboveground Dotted Line - Underground

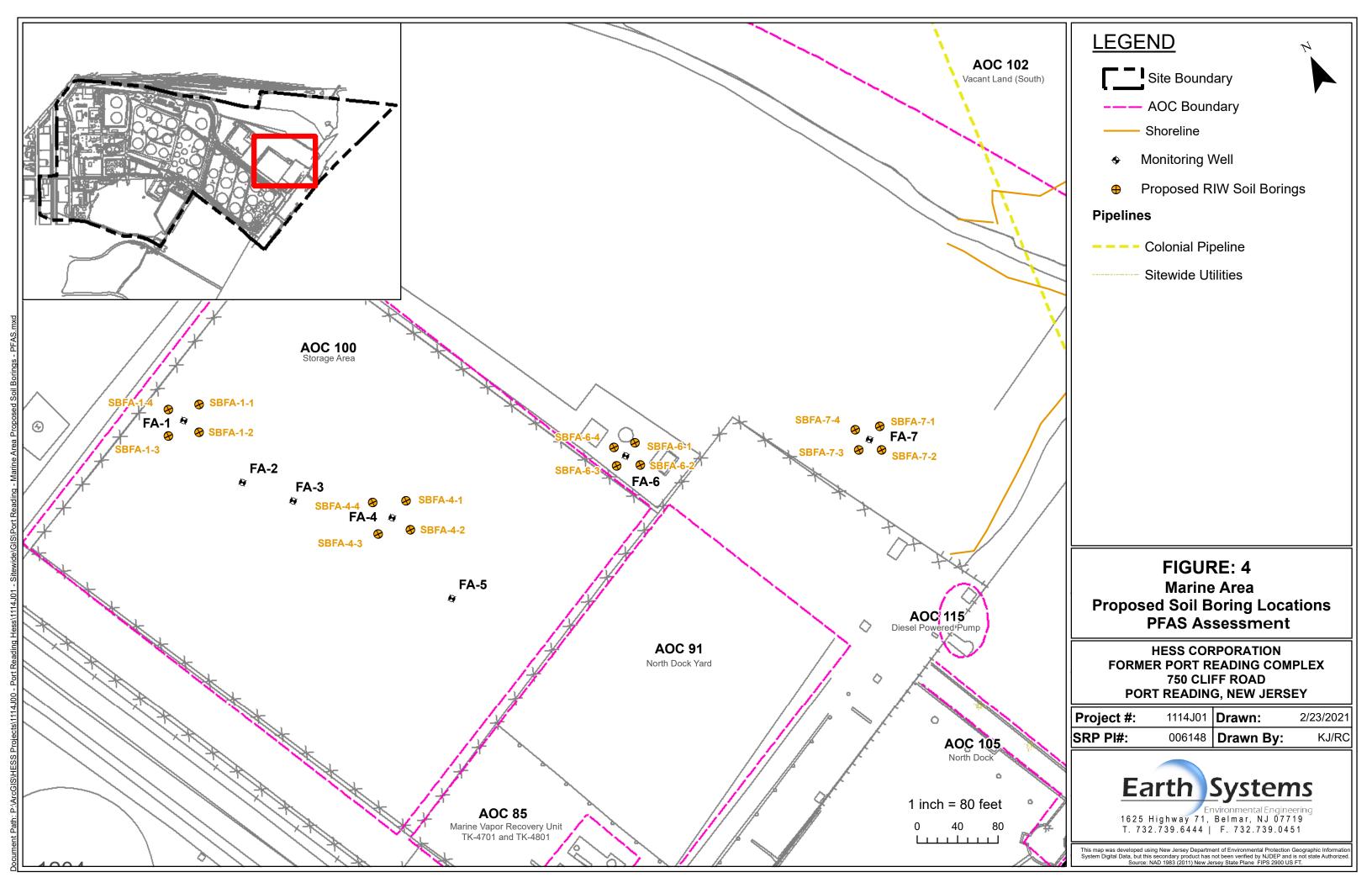
# FIGURE: 2 **Marine Area Proposed Soil Boring Locations**

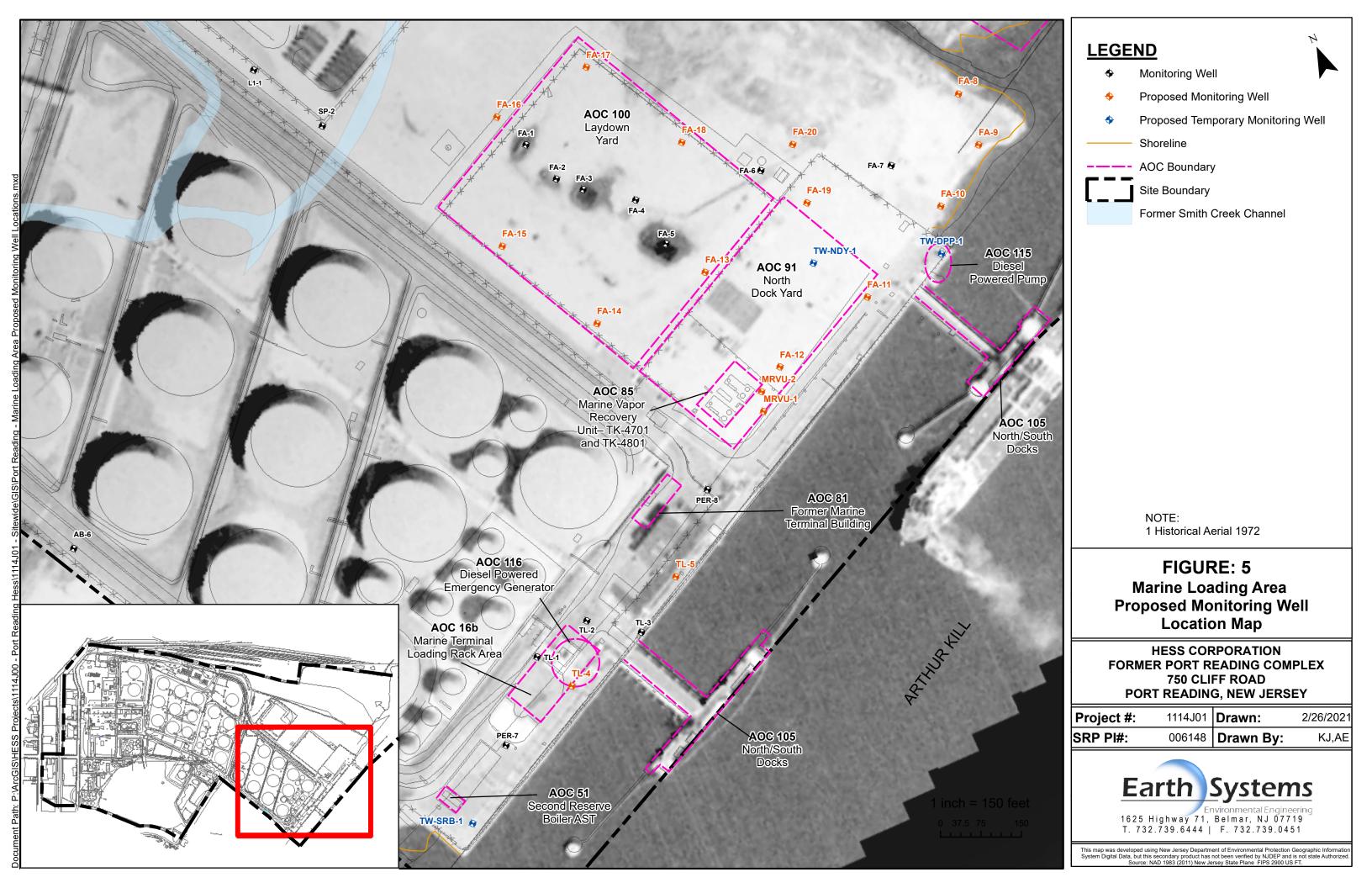
**HESS CORPORATION** FORMER PORT READING COMPLEX 750 CLIFF ROAD **PORT READING, NEW JERSEY** 

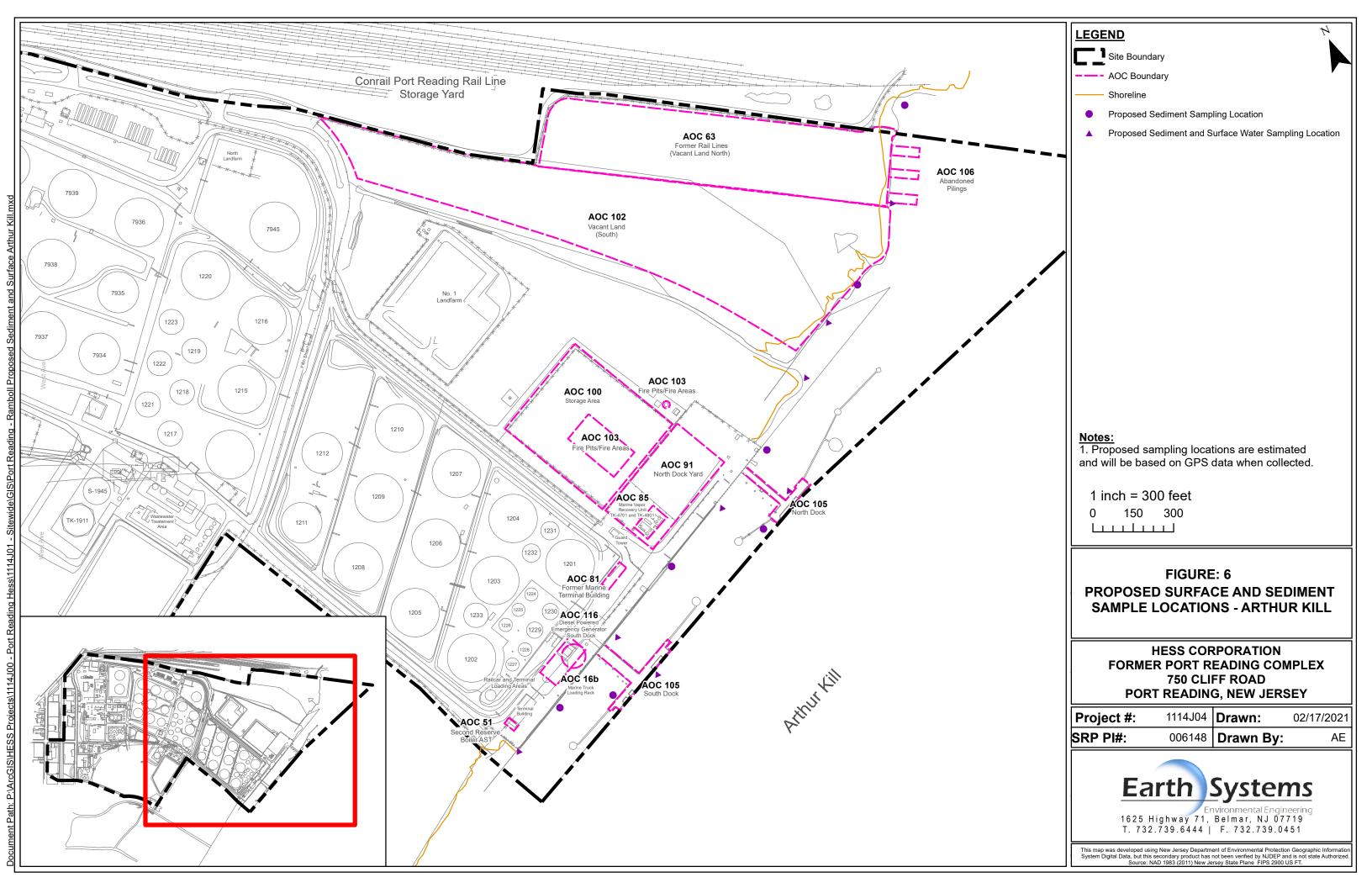
1114J01 | **Drawn**: 2/23/2021 006148 **Drawn By:** KJ/RC











Quality Assurance Project Plan Former Port Reading Complex Marine Loading Dock Area Woodbridge, New Jersey

# Appendix 1: Laboratory Quality Systems Manual



# Quality Systems Manual

Volume XVIII, Revision VI: July 2018

Effective Date: July 11, 2018

Document Control Number: 124

A. Paul Ioannidis

Laboratory Director

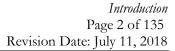
Charles E. Hartke

Quality Assurance Director

Signature

Signature

SGS North America Inc. 2235 U.S. Route 130 Dayton, New Jersey 08810 732.329.0200





#### Introduction

The SGS North America Inc. (hereafter referred to as SGS) Quality Assurance System, detailed in this plan, has been designed to meet the quality program requirements of the National Environmental Laboratory Accreditation Program (NELAP), ISO 17025, the Department of Defense Environmental Laboratory Approval Program (DOD ELAP) and other National environmental monitoring programs. The plan establishes the framework for documenting the requirements of the quality processes regularly practiced by the Laboratory. The Quality Assurance (QA) Director is responsible for changes to the Quality Assurance Program, which is appended to the Quality System Manual (QSM) during the annual program review. The plan is also reviewed annually for compliance purposes by the Vice President (VP) for the Environment, Health & Safety (EHS) division of SGS North America Inc. and by the Laboratory Director, and edited if necessary. Changes that are incorporated into the plan are itemized in a summary of changes following the introduction. Plan changes are communicated to the general staff in a meeting conducted by the QA Director following the plan's approval.

The SGS plan is supported by standard operating procedures (SOPs), which provide specific operational instructions on the execution of each quality element and assure that compliance with the requirements of the plan are achieved. SGS employees are responsible for knowing the requirements of the SOPs and applying them in the daily execution of their duties. These documents are updated as changes occur and the staff is trained to apply the changes.

At SGS, we believe that satisfying client requirements and providing a product that meets or exceeds the standards of the industry is the key to a good business relationship. However, client satisfaction cannot be guaranteed unless there is a system that assures the product consistently meets its design requirements and is adequately documented to assure that all procedural steps are executed, properly documented and traceable.

This plan has been designed to assure that this goal is consistently achieved and the SGS product withstands the rigors of scrutiny that are routinely applied to analytical data and the processes that support its generation.



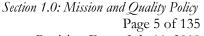
# **Summary of Changes**

Section	Page(s)	<u>Description</u>
Title Page	1	Update Signatures of Lab Director and Quality Assurance Director
Mission and	5 – 6	Updated Mission, Quality Policy and Professionalism Statement
Quality Policy		
Organization	7	Update Dayton organization chart
Organization	8	Update QA organization chart



# **Table of Contents**

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# 1.0 MISSION AND QUALITY POLICY

#### 1.1 SGS NORTH AMERICA INC. MISSION:

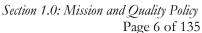
SGS North America Inc. provides analytical services to commercial and government clients in support of environmental monitoring and remedial activities as requested. SGS North America Inc.'s mission is dedicated to providing accurate and reliable data that satisfies client requirements as explained in the following:

"Deliver value to our clients by providing easy access to accurate and timely analytical information which meets or exceeds their expectations."

These services are provided impartially and are not influenced by undue commercial or financial pressures which might impact the staff's technical judgment. SGS North America Inc. does not engage in activities that endanger the trust in our independent judgment and integrity in relation to the testing activities performed.

#### 1.2 QUALITY POLICY AND PROFESSIONALISM STATEMENT:

Quality and Professionalism are integral parts of SGS' Business Principles and are a cornerstone of ensuring high levels of customer satisfaction. By maintaining operational excellence, we ensure the long-term sustainability of our business.





#### IT IS OUR AIM TO

- Deliver world-class services to meet our customers' needs.
- Be known and recognised for our superior knowledge and reliability, along with our accuracy and consistency.
- Nurture and propagate a culture of quality within SGS with the full support of management and engagement of all employees.
- Develop the understanding that we will never compromise on quality.

#### IT IS THEREFORE OUR COMMITMENT TO

- Place our customers at the heart of everything we do.
- Actively listen to industry and customer needs and expectations and innovate in our quality statement to meet them.
- Continuously challenge ourselves to improve our quality management system by setting and reviewing our objectives, risks, KPIs, results and customer satisfaction levels.
- Develop and maintain the processes we need to deliver high quality, optimised and coherent services.

- Continuously measure, maintain and increase SGS' knowledge base through a sustainable processes of talent recruitment and training.
- Respect client confidentiality and individual privacy whilst remaining transparent in all other aspects of our work.
- Protect SGS' intellectual property and know-how.
- Embody the SGS brand and its independence in all that we do.

Delivering quality and professionalism is an individual responsibility for all of us, at every level within our organisation. These commitments apply to all SGS employees and contractors.

Management is responsible for ensuring full compliance with SGS policies.

FRANKIE NG
Chief Executive Officer

11 January 2016

This version cancels and replaces all previous Quality policy statements.

The English version of this document constitutes the binding version.

#### WHEN YOU NEED TO BE SURE

SGS

The following is implied in this policy:

- Commitment to comply with the latest requirements of The NELAC Institute, ISO 17025, and the Department of Defense Quality System Manual
- Commitment to continually improve the effectiveness of the Quality Management System
- Commitment to good professional practices
- Commitment to the quality of our services
- Commitment that testing will be carried out to stated methods and client requirement
- All personnel must familiarize themselves with the Quality Policy, Quality System Manual and implement all policies and procedures related to their jobs.

Management must ensure that this quality policy is communicated and understood with SGS North America Inc. and reviewed for continued suitability.



#### 2.0 ORGANIZATION

2.1 <u>Organizational Entity</u>. SGS - Dayton is the New Jersey division of SGS North America Inc., which is part of the multi-national SGS S.A., based in Geneva, Switzerland. The facility is located in Dayton, New Jersey where it has conducted business since 1987. Satellite laboratories are maintained in Marlborough, Massachusetts; Orlando, Florida; Houston, Texas; Wheat Ridge, Colorado; and Scott, Louisiana.

# 2.2 <u>Management Responsibilities</u>

**Requirement**: Each laboratory facility has an established chain of command. The duties and responsibilities of the management staff are linked to the Operations Council and the Chief Executive Officer of SGS S.A. who establishes the agenda for all company activities.

**Managing Director.** Oversees all business operations for the SGS network in North America. Reports to the Chief Operating Officer for SGS North America Inc.

**Vice President EHS.** Primary responsibility for all operations and business activities. Delegates authority to laboratory directors, general managers, and the quality assurance director to conduct day to day operations and execute quality assurance duties. Reports to the Managing Director of North America.

**Laboratory Director**. Executes day to day responsibility for laboratory operations including technical aspects of production activities and associated logistical procedures. Reports directly to the VP EHS.

**Quality Assurance Director**. Design, oversight, and facilitation responsibility for all quality system elements identified in the quality program. Reports directly to the VP EHS.

**Technical Directors (Organics/Inorganic).** Responsible for day to day operations and activities of the organics and inorganics laboratories including scheduling, production and data quality. Report directly to the Laboratory Director.

**Quality Assurance Manager.** Responsible for ensuring that the management system related to Quality is implemented and followed at all times. Reports directly to the QA Director.

**Department Managers.** Execute day to day responsibility for specific laboratory areas including technical aspects of production activities and associated logistical procedures. Report directly to the Laboratory Director.

**Section Supervisors**. Execute day to day responsibility for specific laboratory units including technical aspects of production activities and associated logistical procedures. Report directly to the respective Department Manager.

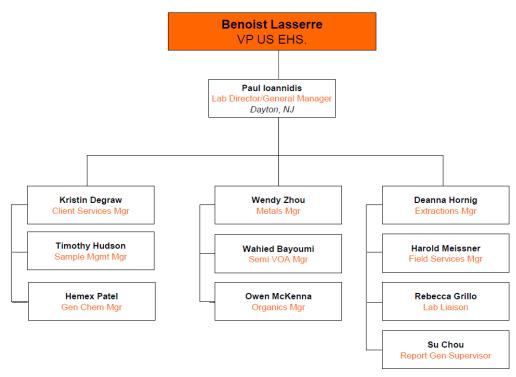


## 2.3 Organization Chart

The hierarchy of the Company's operational control and oversight is illustrated in the SGS Organization Chart. Appointed deputies are listed in Form QA073. In the event that the technical director or quality assurance manager are absent from their respective position for a period of time exceeding fifteen (15) consecutive calendar days. If this absence exceeds thirty-five (35) consecutive calendar days, the laboratory shall notify the New Jersey Department of Environmental Protection (NJDEP)-Office of Quality Assurance and the Department of Defense Environmental Laboratory Accreditation Program (DOD ELAP) accrediting body (ANAB) in writing.

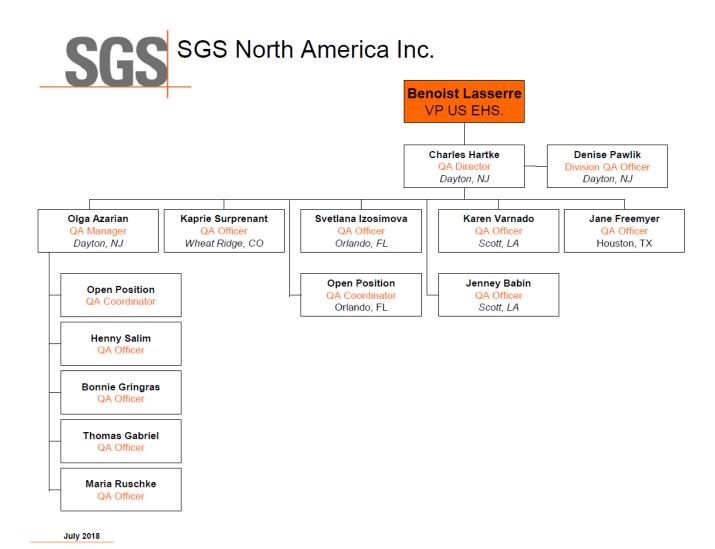
#### **Dayton Laboratory Management Team**







# SGS EHS Quality Assurance Team





### 3.0 QUALITY RESPONSIBILITIES OF THE MANAGEMENT TEAM

**Requirement**: Each member of the management team has a defined responsibility for the Quality System. System implementation and operation is designated as an operational management responsibility. System design and implementation is designated as a Quality Assurance Responsibility.

**Vice President EHS.** Primarily responsible for process improvements to all business aspects of the company.

**Laboratory Director**. Responsible for implementing and operating the Quality System in all laboratory areas. Responsible for the design and implementation of corrective action for defective processes. Has the authority to delegate Quality System implementation responsibilities.

**Quality Assurance Director.** Responsible for design, implementation support, training, and monitoring of the quality system. Identifies product, process, or operational defects using statistical monitoring tools and processes audits for elimination via corrective action. Empowered with the authority to halt production if quality issues warrant immediate action. Monitors implemented corrective actions for compliance.

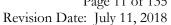
**Technical Directors**. Responsible for overseeing the technical aspects of the quality assurance system as they are integrated into method applications and employed to assess analytical control on a daily basis. The Technical Directors review and acknowledge the technical feasibility of proposed quality assurance systems involving technical applications of applied methodology.

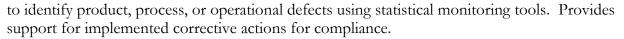
**Department Managers**. Responsible for applying the requirements of the Quality System in their section and assuring subordinate supervisors and staff apply all system requirements. Initiates, designs, documents, and implements corrective action for quality deficiencies.

**Section Supervisors & Team Leaders**. Responsible for applying the requirements of the Quality System to their operation and assuring the staff applies all system requirements. Initiates, designs, documents, and implements corrective action for quality deficiencies.

**Quality Assurance Manager.** Responsible for management of the Quality department and oversight of all Quality Assurance and Quality Control aspects at the Dayton location. Evaluates data objectively and performs assessments without outside influences. Empowered with the authority to halt production if quality issues warrant immediate action. Monitors implemented corrective actions for compliance. Serves as the primary backup in the absence of the Quality Assurance Director.

Quality Assurance Officers. Responsible for design support, implementation support, training, and monitoring support for the quality system. Conducts audits and product reviews





**Bench Analysts**. Responsible for applying the requirements of the Quality System to the analyses they perform, evaluating QC data and initiating corrective action for quality control deficiencies within their control. Implements global corrective action as directed by superiors.

3.2 <u>Data Integrity Policy</u>. The SGS's Data Integrity Policy reflects a comprehensive, systematic approach for assuring that data produced by the laboratory accurately reflects the outcome of the tests performed on field samples and has been produced in a bias free environment by ethical professionals. The policy includes a commitment to technical ethics, staff training in ethics and data integrity, an individual attestation to data integrity and procedures for evaluating data integrity. Senior management assumes the responsibility for assuring compliance with all technical ethics elements and operation of all data integrity procedures. The staff is responsible for compliance with the ethical code of conduct and for practicing data integrity procedures.

The SGS Data Integrity Policy is as follows:

"SGS is committed to producing data that meets the data integrity requirements of the environmental regulatory community. This commitment is demonstrated through the application of a comprehensive data integrity program that includes ethics and data integrity training, data integrity evaluation procedures, staff participation and management oversight. Adherence to the specifications of the program assures that data provided to our clients is of the highest possible integrity and can be used for decision making processes with high confidence."

# **Data Integrity Responsibilities**

Management. Senior management retains oversight responsibility for the data integrity program and retains ultimate responsibility for execution of the data integrity program elements. Senior management is responsible for providing the resources required to conduct ethics training and operate data integrity evaluation procedures. They also include responsibility for creating an environment of trust among the staff and being the lead advocate for promoting the data integrity policy and the importance of technical ethics. The QA Director is the designated ethics officer for the Laboratory. Additionally, SGS Group has an Integrity Hotline (ph: +1 888 475 6847 or compliance@sgs.com) accessible 24/7 which staff and clients may use to contact SGS's Chief Compliance Officer in Geneva.

**Staff.** The staff is responsible for adhering to the company ethics policy as they perform their duties and responsibilities associated with sample analysis and reporting. By executing this responsibility, data produced by SGS retains its high integrity characteristics and withstands the rigors of all data integrity checks.





The staff is also responsible for adhering to all laboratory requirements pertaining to manual data edits, data transcription and data traceability. These include the application of approved manual peak integration and documentation procedures. It also includes establishing traceability for all manual results calculations and data edits.

**Ethics Statement.** The SGS ethics statement reflects the standards that are expected for businesses that provide environmental services to regulated entities and regulatory agencies on a commercial basis. The Ethics Statement is comprised of key elements that are essential to organizations that perform chemical analysis for a fee. As such, it focuses on elements related to personal, technical and business activities.

SGS provides analytical chemistry services on environmental matters to the regulated community. The data the company produces provides the foundation for determining the risk presented by a chemical pollutant to human health and the environment. The environmental industry is dependent upon the accurate portrayal of environmental chemistry data. This process is reliant upon a high level of scientific and personal ethics.

It is essential to the Company that each employee understands the ethical and quality standards required to work in this industry. Accordingly, SGS has adopted a code of ethics, which each employee is expected to adhere to as follows:

- Perform chemical and microbiological analysis using acceptable scientific practices and principles.
- Perform tasks in an honest, principled and incorruptible manner inspiring peers & subordinates.
- Maintain professional integrity as an individual.
- Provide services in a confidential, honest, and forthright manner.
- Produce results that are accurate and defensible.
- Report data without any consideration of self-interest.
- Comply with all pertinent laws and regulations associated with assigned tasks and responsibilities.

**Data Integrity Procedures.** Four key elements comprise the SGS data integrity system. Procedures have been implemented for conducting data integrity training and for documenting that employees conform to the SGS Data Integrity and Ethics policy.



The data integrity program consists of routine data integrity evaluation and documentation procedures to periodically monitor and document data integrity. These procedures are documented as SOPs. SOPs are approved and reviewed annually following the procedures employed for all SGS SOPs. Documentation associated with data integrity evaluations is maintained on file and is available for review.

**Data Integrity Training.** SGS employees receive technical ethics training during new employee orientation. Employees are also required to refresh their ethical conduct agreement annually, which verifies their understanding of SGS ethics policy and their ethical responsibilities. A brochure summarizing the details of the SGS Data Integrity Policy is distributed to all employees with the Ethical Conduct Agreement. The refreshed agreement is appended to each individual's training file.

The training focuses on the reasons for technical ethics training, explains the impact of data fraud on human health and the environment, and illustrates the consequences of criminal fraud on businesses and individual careers. SGS ethics policy and code of ethics are reviewed and explained for each new employee.

Training on data integrity procedures are conducted by individual departments for groups involved in data operations. These include procedures for manual chromatographic peak integration, traceability for manual calculations and data transcription.

**Data Integrity Training Documentation**. Records of all data integrity training are maintained in individual training folders. Attendance at all training sessions is documented and maintained in the training archive.

**SGS Data Integrity and Ethical Conduct Agreement.** All employees are required to sign a Data Integrity and Ethical Conduct Agreement annually. This document is archived in individual training files, which are retained for duration of employment.

The Data Integrity and Ethical Conduct Agreement are as follows:

- I. I understand the high ethical standards required of me with regard to the duties I perform and the data I report in connection with my employment at SGS.
- II. I have received formal instruction on the code of ethics that has been adapted by SGS during my orientation and agree to comply with these requirements.
- III. I have received formal instruction on the elements of SGS Data Integrity Policy and have been informed of the following specific procedures:
  - a. Formal procedures for the confidential reporting of data integrity issues are available, which can be used by any employee,

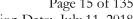


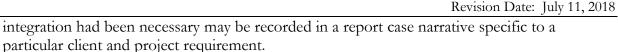
- b. A data integrity investigation is conducted when data issues are identified that may negatively impact data integrity.
- c. Routine data integrity monitoring is conducted on sample data, which may include an evaluation of the data I produce,
- IV. I have read the brochure detailing SGS Data Integrity and Ethics Program as required.
- V. I am aware that data fraud is a punishable crime that may include fines and/or imprisonment upon conviction.
- VI. I also agree to the following:
  - a. I shall not intentionally report data values, which are not the actual values observed or measured.
  - b. I shall not intentionally modify data values unless the modification can be technically justified through a measurable analytical process.
  - c. I shall not intentionally report dates and times of data analysis that are not the true and actual times the data analysis was conducted.
  - d. I shall not condone any accidental or intentional reporting of inauthentic data by other employees and immediately report its occurrence to my superiors.
  - e. I shall immediately report any accidental reporting of inauthentic data by myself to my superiors.

Data Integrity Monitoring. Documented procedures are employed for performing data integrity monitoring. These include regular data review procedures by supervisory and management staff (Section 12.7), supervisory review and approval of manual integrations and periodic reviews of GALP audit trails from the LIMS and all computer controlled analysis.

Data Review. All data produced by the laboratory undergoes at least two levels of review the final review must be performed by a manager, supervisor or designated reviewer. Detected data anomalies that appear to be related to data integrity issues are isolated for further investigation. The investigation is conducted following the procedures described in this section.

Manual Peak Integration Review and Approval. Routine data review procedures for all chromatographic processes includes a review of all manual chromatographic peak integrations. This review is performed by the management staff and consists of a review of the machine integration compared to the manual integration. Manual integrations, which have been performed in accordance with SGS manual peak integration procedures, are approved for further processing and release. Identification of samples and analytes in which manual





Manual integrations which are not performed to SGS specifications are set aside for corrective action, which may include analyst retraining or further investigation as necessary.

Data Integrity Review. Data integrity audits are comprehensive data package audits that include a review of raw data, process logbooks, processed data reports and GALP audit trails from individual instruments and LIMS. GALP audit trails, which record all electronic data activities, are available for the majority of computerized methodology and the laboratory information management system (LIMS). These audit trails are periodically reviewed to determine if interventions performed by technical staff constitute an appropriate action. The review is performed on a recently completed job and may include interviews with the staff who performed the analysis. Findings indicative of inappropriate interventions or data integrity issues are investigated to determine the cause and the extent of the anomaly.

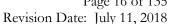
Confidential Reporting of Data Integrity Issues. Data integrity concerns may be raised by any individual to their supervisor. Employees with data integrity concerns should always discuss those concerns with their immediate supervisors as a first step unless the employee is concerned with the confidentiality of disclosing data integrity issues or is uncomfortable discussing the issue with their immediate supervisors. The supervisor makes an initial assessment of the situation to determine if the concern is related to a data integrity violation. Those issues that appear to be violations are documented by the supervisor and referred to the QA Director for investigation.

Documented procedures for the confidential reporting of data integrity issues in the laboratory are part of the data integrity policy. These procedures assure that laboratory staff can privately discuss ethical issues or report items of ethical concern without fears of repercussions with senior staff.

Employees with data integrity concerns that they consider to be confidential are directed to the Corporate Human Resources Manager in Dayton, New Jersey. The HR Manager acts as a conduit to arrange a private discussion between the employee and the Corporate QA Director or a local QA Officer.

During the employee - QA discussion, the QA representative evaluates the situation presented by the employee to determine if the issue is a data integrity concern or a legitimate practice. If the practice is legitimate, the QA representative clarifies the process for the employee to assure understanding. If the situation appears to be a data integrity concern, the QA representative initiates a Data Integrity Investigation following the procedures specified in SOP EQA059.

Data Integrity Investigations. Follow-up investigations are conducted for all reported instances of ethical concern related to data integrity. Investigations are performed in a confidential manner by senior management according to a documented procedure. The





outcome of the investigation is documented and reported to the company Vice President EHS who has the ultimate responsibility for determining the final course of action in the matter. Investigation documentation includes corrective action records, client notification information and disciplinary action outcomes, which is archived for a period of five years.

The investigations are conducted by the senior staff and supervisory personnel from the affected area. The investigations team includes the Laboratory Director and the QA Director. Investigations are conducted in a confidential manner until it is completed and resolved.

The investigation includes a review of the primary information in question by the investigations team. The team performs a review of associated data and similar historical data to determine if patterns exist. Interviews are conducted with key staff to determine the reasons for the observed practices.

Following data compilation, the investigations team reviews all information to formulate a consensus conclusion. The investigation results are documented along with the recommended course of action.

Corrective Action, Client Notification & Discipline. Investigations that reveal systematic data integrity issues will be referred for corrective action, resolution and disposition (Section 13). If the investigation indicates that an impact to data has occurred and the defective data has been released to clients, notification procedures will be initiated following the steps in Section 13.2.

In all cases of data integrity violations, some level of disciplinary action will be conducted on the responsible individual. The level of discipline will be consistent with the violation and may range from retraining and/or verbal reprimand to termination. A zero tolerance policy is in effect for unethical actions.



# 4.0 JOB DESCRIPTIONS OF KEY STAFF

**Requirement**: Descriptions of key positions within the organization are defined to ensure that clients and staff understand duties and the responsibilities of the management staff and the reporting relationships between positions.

**Vice President EHS.** Responsible for overall process improvement for all business processes. Is also responsible for Quality Assurance, IT Development and Health and Safety. Reports directly to the Managing Director for SGS US operations.

**Laboratory Director (also Inorganics Technical Director)**. Reports to the Vice President EHS. Establishes laboratory operations strategy. Direct supervision of client services, organic chemistry, inorganic chemistry, field services, and sample management. Maintains operational responsibility for the designated regional laboratories as defined in the SGS Organization Chart.

**Director, Quality Assurance**. Reports to the company Vice President EHS and functions independently from laboratory operations. Establishes the company quality agenda, develops quality procedures, provides assistance to operations on quality procedure implementation, coordinates all quality control activities, monitors the quality system, and provides quality system feedback to management to be used for process improvement.

**Manager, Quality Assurance.** Reports to the QA Director. Manages quality assurance and quality control functions. Conducts internal audits and prepares reports for management review. Oversees proficiency testing program. Responsible for quality oversight at the Dayton location.

**Manager, Client Services**. Reports to the Laboratory Director. Establishes and maintains communications between clients and the laboratory pertaining to client requirements which are related to sample analysis and data deliverables. Initiates client orders and supervises sample login operations.

Manager, Volatiles (Organics Technical Director). Reports to the Laboratory Director. Directs the operations of the organics group, consisting of organics preparation and instrumental analysis. Establishes daily work schedule. Supervises method implementation, application, and data production. Responsible for following Quality System requirements. Maintains laboratory instrumentation in an operable condition.

Manager, Semi VOA. Reports to the Lab Director. Expedites the analysis of samples and sample extracts. Executes daily analysis schedule. Supervises the analysis of samples for organic parameters using valid, documented methodology. Documents all data and data production activities. Maintains instrumentation in an operable condition. Reviews data for compliance to quality and methodological requirements.



**Manager, General Chemistry**. Reports to the Lab Director. Executes daily analysis schedule. Supervises the analysis of samples for wet chemistry parameters using valid, documented methodology. Maintains instrumentation in an operable condition. Reviews data for compliance to quality and methodological requirements.

**Manager, Metals**. Reports to the Lab Director. Executes daily analysis schedule. Supervises the analysis of samples for metallic elements using valid, documented methodology. Documents all procedures and data production activities. Maintains instrumentation in an operable condition. Reviews data for compliance to quality and methodological requirements.

**Manager, Organic Preparation**. Reports to the Lab Director. Executes the daily sample preparation schedule. Performs the extract of multi-media samples for organic constituents using valid, documented methodology. Prepares documentation for extracted samples. Assumes custody until transfer for analysis.

**Manager, Field Services**. Reports to the Laboratory Director. Conducts field sampling and analysis of "analyze immediately" parameters in support of ongoing field projects. Responsible for proper collection, preservation, documentation and shipment of field samples. Maintains field sampling and field instrumentation required to perform primary responsibilities.

Manager, Sample Management. Reports to the Laboratory Director. Develops, maintains and executes all procedures required for receipt of samples, verification of preservation, and chain of custody documentation. Responsible for maintaining and documenting secure storage, delivery of samples to laboratory units on request and courier services.

Manager, Health, Safety & Environment. Reports to the Vice President EHS. Responsible for developing company safety program and chemical hygiene plan. Reviews and updates these plans annually. Responsible for employee training on relevant health and safety topics. Documents employee training. Manages laboratory waste management program.

**Technical Support Supervisor, Organics**. Reports to the Volatiles Manager. Oversees instrument maintenance and new equipment installation. Conducts method development and implementation tasks.

**Supervisor, Report Generation.** Reports to the Lab Director. Compiles raw and processed sample data and assembles into client-ready reports. Initiates report scanning for archiving purposes. Maintains raw batch data in accessible storage. Mails completed reports to clients according to specified report turnaround schedule.

**Quality Assurance Officers.** Report to the Quality Assurance Manager. Perform quality control data review for trend monitoring purposes. Conduct internal audits and prepare reports for management review. Oversee proficiency testing program. Process quality control data for statistical purposes.



# 4.2 Employee Screening, Orientation, and Training.

All potential laboratory employees are screened and interviewed by human resources and technical staff prior to their hire. The pre-screen process includes a review of their qualifications including education, training and work experience to verify that they have adequate skills to perform the tasks of the job.

Newly hired employees receive orientation training beginning the first day of employment by the Company. Orientation training consists of initial health and safety training including general laboratory safety, personal protection and building evacuation. Orientation also includes quality assurance program training, data integrity training, and an overview of the Company's goals, objectives, mission, and vision.

All technical staff receives training to develop and demonstrate proficiency for the methods they perform. New analysts work under supervision until the supervisory staff is satisfied that a thorough understanding of the method is apparent and method proficiency has been demonstrated, through a precision and accuracy study that has been documented, reviewed and approved by the QA Staff. Data from the study is compared to method acceptance limits. If the data is unacceptable, additional training is required. The analyst may also demonstrate proficiency by producing acceptable data through the analysis of an independently prepared proficiency sample.

Individual proficiency is demonstrated annually for each method performed. Data from initial and continuing proficiency demonstrations are archived in the individual's training folder.

**Training Documentation.** The human resources department prepares a training file for every new employee. All information related to qualifications, experience, external training courses, and education are placed into the file. Verification documentation for orientation, health & safety, quality assurance, and ethics training is also included in the file.

Additional training documentation is added to the file as it is developed. This includes documentation of SOP understanding, data for initial and continuing demonstrations of proficiency, performance evaluation study data and notes and attendance lists from group training sessions.

The Quality Assurance Department maintains the employee training database. This database is a comprehensive inventory of training documentation for each individual employee. The database enables supervisors to obtain current status information on training data for individual employees on a job specific basis. It also enables the management staff to identify training documentation in need of completion.

Employee specific database records are created by human resources on the date of hire. Data base fields for job specific requirements such as SOP documentation of understanding and annual demonstration of analytical capability are automatically generated when the supervisor



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assigns a job responsibility. Employees acknowledge that their SOP responsibilities have been satisfied using a secure electronic process which updates the database record. Reports are produced which summarize the qualifications of individual employees or departments.



#### 5.0 SIGNATORY APPROVALS

**Requirement**: Procedures have been developed for establishing the traceability of data and documents. The procedure consists of a signature hierarchy, indicating levels of authorization for signature approvals of data and information within the organization. Signature authority is granted for approval of specific actions based on positional hierarchy within the organization and knowledge of the operation that requires signature approval. SOP EQA032 Signature Authority explains the process of SGS Signature Authority and the use of electronic signatures in the laboratory. A log of signatures and initials of all employees is maintained by the QA Staff for cross-referencing purposes.

# 5.1 Signature Hierarchy.

**Vice President EHS.** Approval of quality assurance policy in lieu of the Director, Quality Assurance.

**Laboratory Director**. Approval of final reports. Approval of SOPs, project specific QAPs, data review and approval in lieu of technical managers. Establishes and implements technical policy.

**Director, Quality Assurance**. Approval of quality assurance policy in the absence of the Vice President EHS. Approval of SOPs, project specific QAPs, data review and approval in lieu of technical managers.

**Manager, Client Services**. QAP and sampling and analysis plan approval. Project specific contracts, pricing, and price modification agreements. Approval and acceptance of incoming work, Client Services policy.

**Managers, Technical Departments**. Methodology and department specific QAPs. Data review and approval, department specific supplies purchase. Technical approval of SOPs.

**Manager, Sample Management**. Initiation of laboratory sample custody and acceptance of all samples. Approval of department policies and procedures. Department specific supplies purchase.

Manager, Health, Safety & Environment. Approval of health and safety policy in the absence of the Vice President EHS. Approval of health and safety SOPs. Waste manifesting and approval.

**Assistant Managers: Technical Departments**. Data review approval, purchasing of expendable supplies.



**Supervisor, Field Services**. Sampling plan design and approval. Data review for field parameters. State form certification. Department policies and procedures. Department specific supplies purchase.

**Supervisors, Technical Departments**. Data review approval, purchasing of expendable supplies.

- 5.2 <u>Signature Requirements</u>. All laboratory activities related to sample custody and generation or release of data must be approved using either initials, signatures or electronic, password protected procedures. The individual, who applies his signature initial or password to an activity or document, is authorized to do so within the limits assigned to them by their supervisor. All written signatures and initials must be applied in a readable format that can be cross-referenced to the signatures and initials log if necessary.
- 5.3 <u>Signature and Initials Log</u>. The QA group maintains a signature and initials log. New employee signatures and initials are appended to the log on the first day of employment. Signature of individuals no longer employed by the company are retained, but annotated with their date of termination.
- **Electronic Signature Log.** Key technical staff will sign a liability document for their signatures designating the use of their electronic signatures on an annual basis. Quality Assurance team keeps a wet copy of these signatures on form QA115.



#### 6.0 DOCUMENTATION & DOCUMENT CONTROL

**Requirement**: Document control policies have been established which specify that any document used as an information source or for recording analytical or quality control information must be managed using defined document control procedures. Accordingly, policies and procedures required for the control, protection, and storage of any information related to the production of analytical data and the operation of the quality system to assure its integrity and traceability have been established and implemented in the laboratory. The system contains sufficient controls for managing, archiving and reconstructing all process steps which contributed to the generation of an analytical test result. Using this system, an audit trail for reported data can be produced, establishing complete traceability for the result.

**Administrative Records**. Administrative (non-analytical) records are managed by the quality assurance department. These records consist of electronic documents which are retained in a limited access electronic directory or paper documents, which are released to the technical staff upon specific request.

Form Generation, Modification & Control. The quality assurance group approves and manages all forms used as either stand-alone documents or in logbooks to ensure their traceability. Forms are generated as computer files only and are maintained in a limited access master directory. The QA staff also manages and approves modifications to existing forms. Obsolete editions of modified forms are retained for seven years.

Approved forms are assigned a 5-character alphanumeric code. The first two alpha characters designate the department that uses the form; the next three digits are sequentially assigned number.

New forms must include the name SGS and appropriate spaces for signatures of approval and dates. Further design specifications are the responsibility of the originating department.

The technical staff is required to complete all forms to the maximum extent possible. If information for a specific item is unavailable, the analyst is required to "Z" the information block. The staff is also required to "Z" the uncompleted portions of a logbook or logbook form if the day's analysis does not fill the entire page of the form.

<u>Logbook Control</u>. All laboratory logbooks are controlled documents that are comprised of approved forms used to document specific processes. New logs are numbered and issued to a specific individual who is assigned responsibility for the log. Old logs are returned to QA for entry into the document archive system where they are retained for seven (7) years. Laboratory staff may hold a maximum of two consecutively dated logbooks of the same type in the laboratory including the most recently issued book to simplify review of recently completed analysis. The Organic prep department maintains multiple active copies of prep logbooks to facilitate production.



<u>Controlled Documents</u>. Key laboratory documents that are distributed internally and externally are numbered for tracking purposes. Individuals receiving documents, who must be informed when changes occur, receive controlled copies of those documents. Controlled status simplifies document updates and retrieval of outdated documents. Control is maintained through a document numbering procedure and document control logbook which identifies the individual receiving the controlled document and the date of receipt. Key documents are also distributed as uncontrolled documents if the recipient does not require updated copies when changes occur. Key documents in uncontrolled status are numbered and tracked using the same procedures as controlled documents.

**Quality Systems Manual (QSM).** All QSMs are assigned a number prior to distribution. The number, date of distribution, and identity of the individual receiving the document are recorded in the document control logbook. The numbering system is restarted with each new volume, which corresponds to the annual revision of the QSM. Electronic versions are distributed as PDF files.

**Standard Operating Procedures (SOPs).** SOPs are maintained by pre-designating the numbers of official copies of documents that are placed into circulation within the laboratory. Official documents are copied to green paper and placed into the appropriate laboratory section as follows:

Administrative: One master copy for the administrative file.

Sample Management: One controlled green copy for the sample management file.

Organics Laboratories: Two controlled green copies, one for the affected laboratory area, and one for the organics laboratory file.

<u>Inorganics Laboratories:</u> Two controlled green copies, one for the affected laboratory area, and one for the inorganics laboratory file.

<u>Field Services:</u> One controlled green copy for each field sampling team (generally a single field technician).

The original, signed copy of the SOP is maintained in the master SOP binder by the QA staff. The QA staff collects outdated versions of SOPs as they are replaced and archived for a period of seven (7) years in the QA archives. Electronic versions of outdated SOPs are moved from the active SOP directory to the inactive directory.

6.2 <u>Technical Records</u>. All records related to the analysis of samples and the production of an analytical result are archived in secure document storage or on electronic media and contain sufficient detail to produce an audit trail which re-creates the analytical result. These records include information related to the original client request, bottle order, sample login and custody, storage, sample preparation, analysis, data review and data reporting.



Each department involved in this process maintains controlled documents which enable them to maintain records of critical information relevant to their department's process.

6.3 Quality Control Support Data & Records. All information and data related to the quality system is stored in a restricted access directory on the network server. Information on this directory is backed-up daily. Users of the quality assurance information and data have "read-only" access to the files contained in the directory. The QA staff and the laboratory director have write capability in this directory.

This directory contains all current and archived quality system manuals, SOPs, control limits, MDL studies, precision and accuracy data, official forms, internal audit reports, proficiency test scores and metrics calibration information.

The following information is retained in the directory:

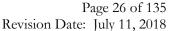
Quality System Manuals
Standard Operating Procedures
ASTM & NIST Methods
Bottleware & Preservative QC Data
Certification Documentation
Change Management Data
External Audit Reports
Internal Audit Reports
Corrective Action Database
Laboratory Forms Directory
Health & Safety Manuals

Inactive Standard Operating Procedures
Method Detection Limit Data
Metrics Inventory & Calibration Data
Performance Limits
Proficiency Test Scores & Statistics
Project Specific Analytical Requirements
QC Report Reviews
Regulatory Agency Quality Documents
Staff Bios And Job Descriptions
State Specific Methods

6.4 <u>Analytical Records</u>. All data related to the analysis of field samples are retained as either paper or electronic records that can be retrieved to compile a traceable audit trail for any reported result. All information is linked to the client job and sample number, which serves as a reference for all sample related information tracking.

Critical times in the life of the sample from collection through analysis to disposal are documented. This includes date and time of collection, receipt by the laboratory, preparation times and dates, analysis times and dates and data reporting information. Analysis times are calculated in hours and minutes.

Sample preparation information is recorded in a separate controlled logbook. It includes sample identification numbers, types of analysis, preparation and cleanup methods, sample weights and volumes, reagent lot numbers and volumes and any other information pertinent to the preparation procedure.





Information related to the identification of the instrument used for analysis is permanently attached to the electronic record. The record includes an electronic data file that indicates all instrument conditions employed for the analysis, including the type of analysis conducted. The analyst's identification is electronically attached to the record. The instrument tuning and calibration data is electronically linked to the sample or linked though paper logs which were used in the documentation of the analysis. Quality control and performance criteria are permanently linked to the paper archive or electronic file.

Paper records for the identity, receipt, preparation and evaluation of all standards and reagents used in the analysis are documented in prepared records and maintained in controlled documents or files. Lot number information linking these materials to the analysis performed is recorded in the logbooks associated with the samples in which they were used.

Manual calculations or peak integrations that were performed during the data review are retained as paper or scanned documents and included as part of the electronic archive. Signatures for data review are retained on paper or as scanned versions of the paper record for the permanent electronic file.

6.5 <u>Confidential Business Information (CBI).</u> Operational documents including SOPs, Quality Manuals, personnel information, internal operations statistics, and laboratory audit reports are considered confidential business information. Strict controls are placed on the release of this information to outside parties.

Release of CBI to outside parties or organizations may be authorized upon execution of a confidentiality agreement between SGS and the receiving organization or individual. CBI information release is authorized for third party auditors and commercial clients in electronic mode as Adobe Acrobat PDF format only.

- 6.6 <u>Software Change Documentation & Control.</u> Changes to software are documented as text within the code of the program undergoing change. Documentation includes a description of the change, reason for change and the date the change was placed into effect. Documentation indicating the adequacy of the change is prepared following the evaluation by the user who requested the change.
- 6.7 Report and Data Archiving. SGS produces digital files of all raw and processed data which is maintained for a minimum period of seven (7) years. The archived files consist of all raw data files and source documents associated with the analysis of field samples and proficiency test samples. Data files and source documents associated with method calibration and project and method quality control are also archived. After seven years, the files may be discarded unless contractual arrangements exist which dictate different requirements. Client or regulatory agency specific data retention practices are employed for several government organizations such as the Department of Defense and the Massachusetts Department of Environmental Protection that require a retention period of ten (10) years. Data archiving may also be extended up to ten (10) years for specific commercial clients in response to contractual requirements.



Complete date and time stamped PDF reports are generated automatically from the laboratory information management system (LIMS) using the source documents archived on the document server. These source documents are maintained on a document server and archived to primary and clone tapes. The primary tapes remain on premises while the clone tapes are taken to a secure offsite location for permanent storage. Both the primary and clone tapes remain in storage for the remainder of the archive period.

6.8 <u>Training</u>. The company maintains a training record for all employees that documents that they have received instruction on administrative and technical tasks that are required for the job they perform. Training records for individuals employed by the company are retained for a period of six months following their termination of employment.

<u>Training File Origination</u>. The QA department initiates training files for each employee. QA Officers retain the responsibility for the maintenance and tracking of all training related documentation in the file. The file is begun on the first day of employment. Information required for the file includes a copy of the individual's most current resume, detailing work experience and a copy of any college diplomas and transcript(s). Information added on the first day includes documentation of health and safety training, quality assurance training and a signed data integrity training and ethical conduct agreement.

Training documentation, training requirements, analyst proficiency information and other training related support documentation is tracked using a customized database application (Section 4.3). Database extracts provide an itemized listing of specific training requirements by job function. Training status summaries for individual analysts portray dates of completion for job specific training requirements.

**Technical Training.** The supervisor of each new employee is responsible for developing a training plan for each new employee. The supervisor evaluates the employees training progress at regular frequencies. Supporting documentation, including demonstration of capability and precision and accuracy studies, which demonstrate an analyst's proficiency for a specific test, are added to the training file as completed. Employees and supervisors verify documentation of understanding (DOU) for all assigned standard operating procedures in the training database. Certificates or diplomas for any off-site training are also added to the file.



#### 7.0 REFERENCE STANDARD TRACEABILITY

<u>Requirement</u>: Documented procedures, which establish traceability between any measured value and a national reference standard, are established by the laboratory as required. All metric measurements are traceable to NIST reference weights or thermometers that are calibrated on a regular schedule. All chemicals used for calibration of a quantitative process are traceable to an NIST reference that is documented by the vendor using a certificate of traceability. The laboratory maintains a documentation system that establishes the traceability links. The procedures for verifying and documenting traceability are documented in standard operating procedures.

- 7.1 Traceability of Metric Measurements Thermometers. SGS uses NIST thermometers to calibrate commercially purchased thermometers prior to their use in the laboratory and annually thereafter for liquid in glass thermometers or quarterly for electronic temperature measuring devices. If necessary, thermometers are assigned correction factors that are determined during their calibration using an NIST thermometer as the standard. The correction factor is documented in a thermometer calibration database and on a tag attached to the thermometer. The correction factor is applied to temperature measurements before recording the measurement in the temperature log. Calibration of each thermometer is verified and documented on a regular schedule. The NIST thermometer is checked for accuracy by an ISO 17025 approved vendor every five (5) years following the specifications for NIST thermometer calibration verification detailed in the United States Environmental Protection Agency's "Manual for the Certification of Laboratories Analyzing Drinking Water", Fifth Edition, February 2005.
- 7.2 <u>Traceability of Metric Measurements Calibration Weights</u>. SGS uses calibrated weights, which are traceable to NIST standard weights to calibrate all balances used in the laboratory. Balances are calibrated to specific tolerances within the intended use range of the balance. Calibration checks are required on each day of use. If the tolerance criteria are not achieved, corrective action specified in the balance calibration SOP is applied before the balance can be used for laboratory measurements. Recalibration of all calibration weights is conducted and documented on a biannual basis.
- 7.3 <u>Traceability of Chemical Standards</u>. All chemicals, with the exception of bulk dry chemicals and acids, purchased as reference standards for use in method calibration must establish traceability to NIST referenced material through a traceability certificate. Process links are established that enable a calibration standard solution to be traced to its NIST reference certificate.
  - Chemical standards used for analysis must meet the purity specifications of the method. These specifications must be stated in the reagents section of the method SOP.
- 7.4 <u>Assignment of Reagent, Bulk Chemical and Standard Expiration Dates.</u> Expiration date information for all purchased standards, prepared standard solutions and selected reagents is provided to SGS by the vendor as a condition of purchase. Neat materials, bulk chemicals



including solvents, acids and inorganic reagents are not required to be purchased with expiration dates. An expiration date of five (5) years from the date of receipt shall be established. Prepared solutions are labeled with the expiration date provided by the manufacturer. In-house prepared solutions are assigned expiration dates that are consistent with the method that employs their use unless documented experience indicates that an alternate date can be applied. If alternate expiration dates are employed, their use is documented in the method SOP. Expiration dates for prepared inorganic reagents, which have not exhibited instability, are established at two years from the date of preparation for tracking purposes.

The earliest expiration date has been established as the limiting date for assigning expiration dates to prepared solutions. The assignments of expiration dates that are later than the expiration date of any derivative solution or material are prohibited.

**7.5 Documentation of Traceability.** Traceability information is documented in individual logbooks designated for specific measurement processes. The quality assurance group maintains calibration documentation for metric references in separate logbooks.

Balance calibration verification is documented in logbooks that are assigned to each balance. The individual conducting the calibration is required to initial and date all calibration activities. Any defects that occur during calibration are also documented along with the corrective action applied and a demonstration of return to control. Annual service reports and certificates are retained on file by the QA staff.

Temperature control is documented in logbooks or an electronic temperature monitoring database assigned to the equipment being monitored. A calibrated thermometer or probe is assigned to each individual item. Uncorrected and corrected measurements are recorded. Logbooks document with the date and initials of the individual conducting the measurement on a daily or as used basis. The temperature database records temperatures automatically every 15 minutes. Corrective action, if required, is also documented including the demonstration of return to control.

Initial traceability of chemical standards is documented via a vendor-supplied certificate (not available for bulk dry chemicals and acids) that includes lot number, expiration date and certified concentration information. Solutions prepared using the vendor supplied chemical standards are documented in logbooks assigned to specific analytical processes. Alternatively, documentation may be entered into the electronic standards and reagent tracking log. The documentation includes links to the vendor's lot number, an internal lot number, and dates of preparation, expiration date, and the preparer's initials.

SGS employs commercially prepared standard solutions whose traceability can be demonstrated through a vendor supplied certificate of analysis that includes an experimental verification of the standard's true concentration. The test value for the verification analysis must agree within 1% of the vendor's true value before it can be employed for calibration

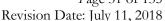


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purposes. If the test value differs from the nominal value by more than 1%, then the test value is used as the true value in laboratory calibrations and calculations. Purchased standards which do not have a certificate of analysis cannot be used for calibration or calibration verification purposes and are rejected or returned to the vendor.

Supervisors conduct regular reviews of logbooks, which are verified using a signature and date.





## 8.0 TEST PROCEDURES, METHOD REFERENCES, AND REGULATORY PROGRAMS

**Requirements**: The laboratory employs client specified or regulatory agency approved methods for the analysis of environmental samples. A list of active methods is maintained, which specifies the type of analyses performed and cross-references the methods to applicable environmental regulations. Routine procedures used by the laboratory for the execution of a method are documented in standard operating procedures. Method performance and sensitivity are demonstrated annually where required. Defined procedures for the use of method sensitivity limits for data reporting purposes are established by the QA Director and used consistently for all data reporting purposes.

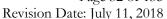
**Method Selection & Application**. SGS employs methods for environmental sample analysis that are consistent with the client's application, which are appropriate and applicable to the project objectives. SGS informs the client if the method proposed is inappropriate or outdated and suggests alternative approaches.

SGS employs documented, validated regulatory methods in the absence of a client specification and informs the client of the method selected. These methods are available to the client and other parties as determined by the client. Documented and validated in-house methods may be applied if they are appropriate to the project. The client is informed of the method selection.

8.2 <u>Standard Operating Procedures</u>. Standard operating procedures (SOP) are prepared for routine methods executed by the laboratory, processes related to laboratory operations and sample or data handling. All SOPs are formatted to meet the specifications established by the National Environmental Laboratory Accreditation Conference, which are detailed in Module 4 – Quality Systems of the established Standards. The procedures describe the process steps in sufficient detail to enable an individual, who is unfamiliar with the procedure to execute it successfully.

SOPs are evaluated annually and edited if necessary. Reviewed SOPs that do not require modification include an evaluation summary form indicating that an evaluation was conducted and modifications were not needed. SOPs can be edited on a more frequent basis if changes are required for any reason. These may include a change to the methodology, elimination of systematic errors that dictate a need for process changes or modifications to incorporate a new version of the method promulgated by the originating regulatory agency. Procedural modifications are indicted using a revision number. SOPs are available for client review at the SGS facility upon request.

The complete list of the laboratories SOPs available as of the date of publication of this QSM version are detailed in Appendix II.





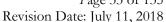
8.3 <u>Method Validation</u>. Standard methods from regulatory sources are primarily used for all analysis. Standard methods do not require validation by the laboratory. Non-standard, inhouse methods are validated prior to use. Validation is also performed for standard methods applied outside their intended scope of use. Validation is dependent upon the method application and may include analysis of quality control samples to develop precision and accuracy information for the intended use. A final method validation report is generated, which includes all data in the validation study. A statement of adequacy and/or equivalency is included in the report. A copy of the report is archived in the quality assurance directory of the company server.

Non-standard methods are validated prior to use. This includes the validation of modified standard methods to demonstrate comparability with existing methods. Demonstrations and validations are performed and documented prior to incorporating technological enhancements and nonstandard methods into existing laboratory methods used for general applications. The demonstration includes method specific requirements for assuring that significant performance differences do not occur when the enhancement is incorporated into the method. Validation is dependent upon method application and may include the analysis of quality control samples to develop precision and accuracy information for intended use.

The study procedures and specifications for demonstrating validation include comparable method sensitivity, calibration response, method precision; method accuracy and field sample consistency for several classes of analytical methods are detailed in this document. These procedures and specifications may vary depending upon the method and the modification.

- 8.4 <u>Estimated Uncertainty.</u> A statement of the estimated uncertainty of an analytical measurement accompanies the test result when required. Estimated uncertainty is derived from the performance limits established for spiked samples of similar matrices. The degree of uncertainty is derived from the negative or positive bias for spiked samples accompanying a specific parameter. When the uncertainty estimate is applied to a measured value, the possible quantitative range for that specific parameter at that measured concentration is defined. Well recognized regulatory methods that specify values for the major sources of uncertainty and specify the data reporting format do not require a further estimate of uncertainty.
- **Demonstration of Capability**. Confirmation testing is conducted to demonstrate that the laboratory is capable of performing the method before its application to the analysis of environmental samples. The results of the demonstration tests are compared to the quality control specifications of the method to determine if the performance is acceptable.

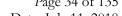
Capability demonstrations are conducted initially for every analyst on each method performed and annually on a method specific basis thereafter. Acceptable demonstrations are documented for individual training files and retained by the QA staff. New analytes, which are added to the list of analytes for an accredited method, are evaluated for applicability through a demonstration of capability similar to those performed for accredited analytes.





- 8.6 <u>Method Detection Limit Determination</u>. Method detection limit (MDL) studies are performed as appropriate for routine methods used in the laboratory. MDL studies are also performed when there is a change to the method that affects how the method is performed or when an instrumentation change that impacts sensitivity occurs. The procedure used for determining MDLs is described in 40 CFR, Part 136 and Appendix B. Studies are performed for each method on water, soil and air matrices for every instrument that is used to perform the method. MDLs are established at the instrument level. The quality assurance staff manages the annual MDL determination process and is responsible for retaining MDL data on file. Approved MDLs are appended to the LIMS and used for data reporting purposes.
- 8.7 <u>Limit of Detection (LOD).</u> For the DoD ELAP, the limit of detection (LOD) for each method and target analyte of concern is established for each instrument that is used to perform the method. The LOD is established by initially spiking a water and/or soil matrix at approximately two to three times the calculated MDL (for a single-analyte standard) or two to four times the calculated MDL (for a multi-analyte standard). The LOD undergoes all sample processing steps and is validated by the qualitative identification of the analytes of interest. The spike concentration establishes the LOD and must be verified quarterly. If the spike concentration in the LOD cannot be verified at the initial level with appropriate analytical quality control, a higher LOD must be defined and verified.
- 8.8 <u>Instrument Detection Limit Determination</u>. Instrument detection limits (IDLs) are determined for all inductively coupled argon plasma emission spectrophotometers and mass spectrometers. The IDL is determined for the wavelength (emission) of each element and the ion (mass spectrometry) of each element used for sample analysis. The IDL data is used to estimate instrument sensitivity in the absence of the sample matrix. IDL determinations are conducted at the frequency specified in the appropriate SOPs' for ICP and ICP/MS analysis.
- 8.9 <u>Method Reporting Limit.</u> The method reporting limit for organic methods is determined by the concentration of the lowest calibration standard in the calibration curve. This value is adjusted based on several sample preparation factors including sample volume, moisture content (soils), digestion, distillation or dilution. The low calibration standard is selected by department managers as the lowest concentration standard that can be used for calibration while continuing to meet the calibration linearity criteria of the method being used. The validity of the method reporting limits are confirmed through the analysis of a spiked quality control sample at the method reporting limit concentration. By definition, detected analytes at concentrations below the low calibration standard cannot be accurately quantitated and are qualified as estimated values.

The reporting limit for inorganics methods is defined as the concentration which is greater than the MDL where method quality control criteria has been achieved. The reporting limit for general chemistry methods employing multiple point calibrations must be greater than or equal to the concentration of the lowest standard of the calibration range.



The reporting limit established for both organic and inorganic analysis is above the calculated method detection limit where applicable.

- 8.10 **Limit of Quantitation (LOQ).** For the DoD ELAP the limit of quantitation (LOQ) for each analyte of concern is determined. The LOQ is set within the range of calibration is greater than the established LOD. Precision and bias criteria for the LOQ are established to meet client requirements and are verified quarterly.
- 8.11 **Reporting of Quantitative Data.** Analytical data for all methods is reported without qualification to the reporting limit established for each method. Data, for organic methods may be reported to the established method detection limit depending upon the client's requirements provided that all qualitative identification criteria for the detected parameter have been satisfied. All parameters reported at concentrations between the reporting limit and the method detection limit are qualified as estimated.

Data for inorganic methods are reported to the established method reporting limits. Inorganic data for specific methods may also be reported to the established method detection limit at client request. However, this data is always qualified as estimated.

Measured concentrations of detected analytes that exceed the upper limit of the calibration range are either diluted into the range and reanalyzed or qualified as an estimated value. The only exception to this applies to ICP and ICP/MS analysis, which can be reported to the upper limit of the experimentally determined linear range without qualification.

Precision and Accuracy Studies. Annual precision and accuracy (P&A) studies, which 8.12 demonstrate the laboratories ability to generate acceptable data, are performed for all routine methods used in the laboratory. The procedure used for generating organic P&A data is referenced in the majority of the regulatory methodology in use. The procedure requires quadruplicate analysis of a sample spiked with target analytes at a concentration in the working range of the method. This data may be compiled from a series of existing blank spikes or laboratory control samples. Accuracy (percent recovery) of the replicate analysis is averaged and compared to established method performance limits. Values within method limits indicate an acceptable performance demonstration. Precision and accuracy date is also used to annually demonstrate analytical capability for individual analysts. Annual demonstration of capability data is archived in individual training files.

Performance Limits. The Quality Assurance staff is responsible for compilation and maintenance of all precision and accuracy data used for performance limits. Quality control data for all test methods are accumulated and stored in the laboratory information management system (LIMS). Parameter specific QC data are extracted semi-annually for methods 8260, 8270, 8081, 8082 and annually for remaining methods. Each method is statistically processed to develop laboratory specific warning limits and control limits. The new limits are reviewed and approved by the supervisory staff prior to their use for data assessment.



The new limits are used to evaluate QC data for compliance with method requirements for a period of one year. Laboratory generated limits appear on all data reports.

8.13 Method Sources & References. The Quality Assurance Staff maintains a list of active methods used for the analysis of samples. This list includes valid method references from sources such as USEPA, ASTM or Standard Methods designations and the current version and version date.

Updated versions of approved reference methodology are placed into use as changes occur. The Quality Assurance staff and/or Technical Managers inform operations management of changes in method versions as they occur. The operations management staff selects an implementation date. The operations staff is responsible for completing all method use requirements prior to the implementation date. This includes modification of SOPs, completion of MDL and precision and accuracy studies and staff training. Documentation of these activities is provided to the QA staff who retains this information on file. The updated method is placed into service on the implementation date and the old version is de-activated.

Multiple versions of selected methods may remain in use to satisfy client specific needs. In these situations, the default method version becomes the most recent version. Client specific needs are communicated to the laboratory staff using method specific analytical method codes, which clearly depict the version to be used. The old method version is maintained as an active method until the specified client no longer requires the use of the older version.

SGS will not use methodology that represents significant departures from the reference method unless specifically directed by the client. If clients direct the laboratory to use a method modification that represents a significant departure from the reference method, the request will be documented in the project file.

8.14 <u>Analytical Capabilities</u>. Appendix III provides a detailed listing of the methodology employed for the analysis of test samples.



# 9.0 SAMPLING, SAMPLE MANAGEMENT, LOGIN, CUSTODY, STORAGE AND DISPOSAL

**Requirement**: The laboratory must employ a system which ensures that client supplied product or supplied product (the sample) is adequately evaluated, acknowledged, and secured upon delivery to the laboratory. The system also assures that product chain of custody is maintained and that sample receipt conditions and preservation status are documented and communicated to the client and internal staff. The login procedure assigns, documents, and maps the specifications for the analysis of each unique sample to assure that the requested analysis is performed on the correct sample and enables the sample to be tracked throughout the laboratory analytical cycle. The system includes procedures for reconciling defects in sample condition or client provided data, which are identified at sample arrival. The system specifies the procedures for proper sample storage, transfer to the laboratory, and disposal after analysis. The system is also documented in standard operating procedures.

9.1 Order Receipt and Entry. New orders are initiated and processed by the client services group (See Chapter 14, Procedures for Executing Client Specifications). The new order procedure includes mechanisms for providing bottles to clients, which meet the size, cleanliness, and preservation specifications for the analysis to be performed.

For new orders, the project manager prepares a bottle request form, which is submitted to sample management. This form provides critical project details to the sample management staff, which are used to prepare and assemble the sample bottles for shipment to the client prior to sampling.

The bottle order is assembled using bottles that meet US EPA specifications for contaminant free sample containers. SGS uses a combination of commercially supplied pre-cleaned bottles and bottles that have been tested for residual contamination and verified to meet USEPA specifications prior to use. Sterile bottles for microbiological samples are purchased from commercial sources.

Bottles, which are not purchased pre-cleaned, are checked to assure that they are free of contamination from targeted analytes before being released for use. Sterile bottles are checked for contamination with each lot. The QA staff retains a copy of the documentation of inhouse contamination and sterility checks and maintains the responsibility for approving and releasing bottle lots for use following a review of the check data.

Preservative solutions that are specified for the analysis requested are dispensed into the sample bottle prior to shipment. All preservative solutions are prepared in the laboratory or purchased from commercial suppliers. Each solution is checked to assure that it is free of contamination from the compounds being analyzed before being released for use.

Reagent water for trip and field blanks is poured into appropriately labeled containers. All bottles are packed into ice chests with blank chain of custody forms and the original bottle



order form. Completed bottle orders are delivered to clients using SGS couriers or commercial carriers for use in field sample collection.

- 9.2 <u>Sampling</u>. Documented procedures are employed by the field staff for field sample collection and are accessible during sample collection activities. Field activities are documented which detail relevant field conditions, site data and the results of field measurements. Appropriate custody procedures for collected samples are initiated by the field staff at the time of sample collection. Samples are documented, labeled and preserved according to the specifications of the method and/or regulatory program prior to being shipped to the laboratory.
- 9.3 <u>Sample Receipt and Custody</u>. Samples are delivered to the laboratory using a variety of mechanisms including SGS couriers, commercial shippers, and client self-delivery. Documented procedures are followed for arriving samples to assure that custody and integrity are maintained and handling/ preservation requirements are documented and maintained.

Sample custody documentation is initiated when the individual collecting the sample collects field samples. Custody documentation includes all information necessary to provide an unambiguous record of sample collection, sample identification, and sample collection chronology. Initial custody documentation employs either SGS or client generated custody forms.

SGS generates a chain of custody in situations where the individuals who collected the sample did not generate custody documentation in the field.

SGS defines sample custody as follows:

- The sample is in the actual custody or possession of the assigned responsible person,
- The sample is in a secure area.

The SGS facility is defined as a secure facility. Perimeter security has been established, which limits access to authorized individuals only. Visitors enter the facility through the building lobby and must register with the receptionist prior to entering controlled areas. While in the facility, visitors are required to wear a visitor's badge and must be accompanied by their hosts at all times. After hours, building access is controlled using a computerized passkey reader system. This system limits building access to individuals with a pre-assigned authorization status. After hours visitors are not authorized to be in the building. Clients delivering samples after hours must make advanced arrangements through client services and sample management to assure that staff is available to take delivery and maintain custody.

Upon arrival at SGS, the sample custodian reviews the chain of custody for the samples received to verify that the information on the form corresponds with the samples delivered. This includes verification that all listed samples are present and properly labeled, checks to verify that samples were transported and received at the required temperature, verification that



the sample was received in proper containers, verification that sufficient volume is available to conduct the requested analysis, and a check of individual sample containers to verify test specific preservation requirements including the absence of headspace for volatile compound analysis.

Sample conditions and other observations are documented on the chain of custody by the sample custodian prior to completing acceptance of custody and in an online database that creates a permanent record of all sample login activities. The sample custodian accepts sample custody upon verification that the custody document is correct. Discrepancies or non-compliant situations are documented and communicated to the SGS Project Manager, who contacts the client for resolution. The resolution is documented and communicated to sample management for execution.

The sample management staff maintains an electronic sample receipt log. This log details all sample-related information in a searchable database that is updated upon data entry and backed up daily. The log records include critical date information, numbers of samples, numbers of bottles for each parameter, descriptions of bottles for each parameter, preservation conditions, bottle refrigerator location, and bottle conditions. Data entry into the log is secured using individual passwords.

During initial login, each bottle is assigned a unique number and is labeled with a barcode corresponding to that number. A bar-coding and scanning system electronically tracks sample custody transfers between individuals within the laboratory. Internal custody documentation may be required for compliance with regulatory agency or contractual specifications. A documented, chronological record of each sample transfer identifying each individual having possession of the sample is created in the laboratory information management system, which can be printed and included in data reports to demonstrate continuous custody.

9.4 <u>Laboratory Preservation of Improperly Preserved Field Samples.</u> SGS will attempt to preserve field samples that were received without proper preservation to the extent that it is feasible and supported by the methods in use. Laboratory preservation of improperly preserved or handled field samples is routinely performed for metals samples. Special handling procedures may also be applied to improperly preserved volatile organics.

Aqueous metals samples that were not nitric acid preserved to pH 2 in the field are laboratory preserved and held for twenty (24) hours to equilibrate prior to analysis. Aqueous metals samples requiring field filtration may be filtered in the laboratory within seventy-two (72) hours of receipt provided that the sample has not been acid preserved.

Unpreserved volatile organics that include Acrolein and /or Acrylonitrile must be analyzed within three (3) days; remaining samples may be analyzed within seven (7) days to minimize degradation of volatile organics if the laboratory is notified in advance of the failure to preserve upon collection. Laboratory preservation of unpreserved aqueous samples is not possible. A pH check of volatile organic samples prior to analysis will compromise the sample by allowing volatile



organics to escape during the check. If the laboratory is not notified of the failure to field preserve an aqueous volatile organic sample, the defect will not be identified until sample analysis has been completed and the data is qualified accordingly.

9.5 <u>Sample Tracking Via Status Change.</u> An automated, electronic LIMS procedure records sample exchange transactions between departments and changes in analytical status. This system tracks all preparation, analytical, and data reporting procedures to which a sample is subjected while in the possession of the laboratory. Each individual receiving samples must acknowledge the change in custody and operational status in the LIMS. This step is required to maintain an accurate electronic record of sample status, dates of analytical activity, and custody throughout the laboratory.

Sample tracking is initiated at login where all chronological information related to sample collection dates and holding times are entered into the LIMS. This information is entered on an individual sample basis.

9.6 <u>Sample Acceptance Policy</u>. Incoming samples must satisfy SGS's sample acceptance criteria before being logged into the system. Sample acceptance is based on the premise that clients have exercised proper protocols for sample collection. This includes complete documentation, sufficient volume, proper chemical preservation, temperature preservation, sample container sealing and labeling, and appropriate shipping container packing.

The sample management staff will make every attempt to preserve improperly preserved samples upon arrival. However, if preservation is not possible, the samples may be refused unless the client authorizes analysis. No samples will be accepted if holding times have been exceeded or will be exceeded before analysis can take place unless the client authorizes analysis.

Sample acceptance criteria include proper custody and sample labeling documentation. Proper custody documentation includes an entry for all physical samples delivered to the laboratory with an identification code that matches the sample bottle and a date and signature of the individual who collected the sample and delivered them to the laboratory.

SGS reserves the right to refuse any sample which in its sole and absolute discretion and judgment is hazardous, toxic and poses or may pose a health, safety or environmental risk during handling or processing. The company will not accept samples for analysis using methodology that is not performed by the laboratory or for methods that lab does not hold valid accreditations unless arrangements have been made to have the analysis conducted by a qualified subcontractor.

SGS does not accept radioactive samples, however, the policy for sample handling of Naturally Occurring Radioactive Materials (NORM) is described below:

Samples that meet the Federal Department of Transportation and International Air Transportation Association criteria could be accepted and handled following normal



procedures (except for disposal) in the lab. This corresponds to samples with United Nations (UN) labels indicating levels of < 500 uR/hour. Samples containing levels at or higher than 500 uR/hour will not be accepted by SGS. Clients must inform SGS of the level of radiation by screening the samples and documenting the level on the Chain of Custody or other form in order for the samples to be accepted.

SGS would require that any shipments containing samples of this type must be clearly labeled with UN labels showing the measured level of radioactivity as < 500 uR/hour.

These samples cannot be disposed of in our normal waste streams. Therefore, on completion of analysis, the samples would be returned to the client or disposed of using an alternate waste handler. In either case, the client would be responsible for the additional shipping or disposal charges, as well as processing charges for segregating the waste stream in the lab.

**9.7** Assignment of Unique Sample Identification Codes. Unique identification codes are assigned to each sample bottle to assure traceability and unambiguously identify the tests to be performed in the laboratory.

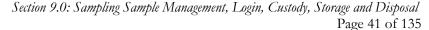
The sample identification coding process begins with the assignment of a unique alphanumeric job number. A job is defined as a group of samples received on the same day, from a specific client pertaining to a specific project. A job may consist of groups of samples received over a multi-day period. The first two characters of the job number are alpha-characters that identify the laboratory facility. The next characters are numeric and sequence by one number with each new job.

Unique sample numbers are assigned to each bottle collected as a discrete entity from a designated sample point. This number begins with the job number and incorporates a second series of numbers beginning at one and continuing chronologically for each point of collection. The test to be performed is clearly identified on the bottle label. Multiple sample bottles collected for analysis of the same parameter are numbered bottle 1, 2, etc.

Alpha suffixes may be added to the sample number to identify special designations such as subcontracted tests, in-house QC checks, or re-logs. Multiple sample bottles for a specific analysis are labeled Bottle 1, Bottle 2, etc.

9.8 <u>Subcontracted Analysis</u>. Subcontract laboratories are employed to perform analysis not performed by SGS. The quality assurance staff evaluates subcontract laboratories to assure their quality processes meet the standards of the environmental laboratory industry prior to engagement. Throughout the subcontract process, SGS follows established procedures to assure that sample custody is maintained and the data produced by the subcontractor meets established quality criteria.

Subcontracting Procedure. Subcontracting procedures are initiated through several mechanisms, which originate with sample management. Samples for analysis by a subcontractor are logged





into the SGS system using regular login procedures. If subcontract parameters are part of the project or sample management has received subcontracting instructions for a specific project, a copy of the chain of custody is given to the appropriate project manager with the subcontracted parameters highlighted. This procedure triggers the subcontract process at the project management level. The project manager contacts an approved subcontractor that carries accreditation in the venue of the project location to place the subcontract order. A subcontract order form (SOF) is simultaneously prepared in electronic format, by the project manager and filed with the original chain of custody. The SOF and the subcontract chain of custody are forwarded to sample management, via email, for processing. A copy is filed with the original CoC.

Sample management signs the subcontract chain of custody and ships the sample(s) to the subcontractor. The subcontract CoC is filed with the original CoC and the request for subcontract. Copies are distributed to the login department, the project manager, sample management and the client.

Clients are verbally notified of the need to subcontract analysis as soon as the need is identified by the client services staff. This may occur during the initial project setup or at the time of login if the project setup had not been initiated through the client services staff. Copies of the subcontract CoC and the original CoC, which are electronically distributed to clients, constitutes documented client notification of the laboratories intent to subcontract analysis.

Subcontractor data packages are reviewed by the QA Staff to assess completeness and quality compliance. If completeness defects are detected, the subcontractor is asked to immediately upgrade the data package. If data quality defects are detected, the QA staff retains the package for further review. The QA staff will pursue a corrective action solution before releasing defective data to the client.

Approved subcontract data is entered into the laboratory information management system (LIMS) if possible and incorporated into the final report. All subcontract data is footnoted to provide the client with a clear indication of its source. Copies of original subcontract data are included in the data report depending on the reporting level specified by the client. Applicable subcontractor accreditation information is provided with the subcontractor data.

Subcontract Laboratory Evaluation. The QA staff evaluates subcontract laboratories prior to engagement. The subcontract laboratory must provide SGS with proof of a valid certification to perform the requested analysis for the venue where they were collected and for a specific program should an approval or accreditation be required. In addition, the QA staff may require a copy of the laboratory's Quality Systems Manual, copies of SOPs used for the subcontracted analysis, a copy of the most recent performance evaluation study for the subcontracted parameter, copies of the internal data integrity policy and copies of the most recent regulatory agency or third party accreditor audit report. Certification verification must be submitted to SGS annually. If possible, the QA staff may conduct a site visit to the laboratory to inspect the quality system. SGS assumes the responsibility for the performance



of all subcontractors who have successfully demonstrated their qualifications and should obtain an example data deliverable package prior to initiation of subcontract work for compliance review. Qualification of a subcontract laboratory may be bypassed if the primary client directs SGS to employ a specific subcontractor.

9.9 <u>Sample Storage</u>. Following sample transfer to the sample custodian, samples are assigned to various secured, refrigerated storage areas depending upon the test to be performed and the matrix of the samples. The location (refrigerator and shelf) of each sample is recorded on the chain of custody adjacent to the line corresponding to each sample number and also entered into the LIMS. Samples remain in storage until the laboratory technician requests that they be transferred into the laboratory for analysis.

Second shift staff is authorized to retrieve samples from storage and initiate custody transfer. All sample request forms must be completed regardless of who performs the transfer.

Samples for volatile organics analysis are placed in storage in designated refrigerators by the sample custodian and immediately transferred to the organics group control. Sample custody is transferred to the department designee. These samples are segregated according to matrix to limit opportunities for cross contamination to occur.

Organics staff is authorized to retrieve samples from these storage areas for analysis. When analysis is complete, the samples are placed back into storage.

9.10 <u>Sample Login</u>. Following sample custody transfer to the laboratory, the documentation that describes the client's analytical requirements are delivered to the sample login group for coding and entry to the Laboratory Information Management System (LIMS). This process translates all information related to collection time, turnaround time, sample analysis, and deliverables into a code which enables client requirements to be electronically distributed to the various departments within the laboratory for scheduling and execution.

The technical staff is alerted to client or project specific requirements through the use of a unique project code that is electronically attached to the job during login. The unique project code directs the technical staff to controlled specifications documents detailing the unique requirements.

9.11 <u>Sample Retrieval for Analysis</u>. Individual laboratory departments prepare and submit written requests to the sample custodian to retrieve samples for analysis. The sample custodian retrieves all samples except volatile organics and delivers them to the requesting department. Retrieval priorities are established by the requesting department and submitted to the sample custodian when multiple requests are submitted. Internal custody transfers using the bar code scanning system occur whenever the samples change hands or locations.

After sample analysis has been completed, the department requests pick-up and return of the sample to the storage area. The sample custodian retrieves the sample and completes the



custody transfer from the department of the transfer back to sample management or sample storage.

**9.12** <u>Sample Disposal</u>. SGS retains all samples and sample extracts under proper storage for a minimum of 30 days following completion of the analysis report. Longer storage periods are accommodated on a client specific basis if required. Samples may also be returned to the client for disposal.

SGS disposes of all laboratory wastes following the requirements of the Resource Conservation and Recovery Act (RCRA). The Company has obtained and maintains a waste generator identification number, NJD982533622.

Sample management generates a sample disposal dump sheet from the LIMS tracking system each week, which lists all samples whose holding period has expired. Data from each sample is compared to the hazardous waste criteria established by the New Jersey DEP.

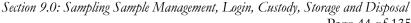
Samples containing constituents at concentrations above the criteria are labeled as hazardous and segregated into five general waste categories for disposal as follows:

Waste Oil
Soil (solids – positive and negative hazardous characteristics)
Mixed Aqueous
Sludges (semi-solids)
PCB Hazardous Waste (USEPA 40 CFR 761 criteria).

Non-hazardous aqueous samples are diluted and disposed directly into the laboratory sink. All aqueous liquids pass through a neutralization system before entering the municipal system. Solid samples are emptied into consolidation drums and disposed as hazardous waste or non-hazardous wastes depending upon the results of hazardous characteristics determination. Samples classified as PCB hazardous wastes are labeled and packaged according to the requirements in 40 CFR 761.

Empty glass and plastic bottles from aqueous and solid samples are segregated for recycling. Recycled materials are collected by a commercial contractor and transferred to a county transfer facility for separation into various materials categories. These operations are classified as secure facilities employing cameras, security guards and fiber optic security systems. The recyclable material is transported to a recycling facility for further processing. Separated glass is transported to a processing facility where it is acid washed in two, separate wash baths, rinsed in boiling water and ground into ½ inch chunks. The chunks are transported to an end product user for re-manufacturing into a glass product.

Separated plastic is transported to a processing facility where it is acid washed to remove the labels and adhesives and boiled for sterilization. The sample containers and any remaining labels are shredded and ground resulting in complete destruction of remaining labels the

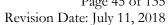




ground material is sent by rail car or tractor-trailer to various end users that melt and reform the material into useful products of their industry. The recycling facility employs a Code of Ethics in which all client names are confidential and are not divulged to any individual or corporation without written permission from the client.

Laboratory wastes are collected by waste stream in designated areas throughout the laboratory. Waste streams are consolidated twice each week by the waste custodian and transferred to stream specific drums for disposal through a permitted waste management contractor. Filled, consolidated drums are tested for hazardous characteristics and scheduled for removal from the facility for appropriate disposal based on the laboratory data.

All solvent extracts and digestates are collected for disposal following the thirty-day holding period and drummed according to their specific waste stream category. Chlorinated solvent extracts are drummed as chlorinated wastes (i.e., Methylene Chloride). Non-chlorinated solvent extracts are drummed as non-chlorinated wastes (i.e., acetone, hexane, methanol, and mixed solvents). Digestates are collected for disposal following the thirty-day holding period and drummed as corrosive liquid containing metals.



#### 10.0 LABORATORY INSTRUMENTATION AND MEASUREMENT STANDARDS

**Requirement**: The laboratory has established procedures, which assure that instrumentation is performing to a pre-determined operational standard prior to the analysis of any samples. In general, these procedures follow the regulatory agency requirements established in promulgated methodology. The instrumentation selected to perform specified analysis are uniquely identified and capable of providing the method specified uncertainty of measurement needed. These procedures are documented and incorporated into the standard operating procedures for the method being executed.

- 10.1 <u>Mass Tuning Mass Spectrometers</u>. The mass spectrometer tune and sensitivity is monitored to assure that the instrument is assigning masses and mass abundances correctly and that the instrument has sufficient sensitivity to detect compounds at low concentrations. This is accomplished by analyzing a specific mass tuning compound at a fixed concentration. If the sensitivity is insufficient to detect the tuning compound, corrective action must be performed prior to the analysis of standards or samples. If the mass assignments or mass abundances do not meet criteria, corrective action must be performed prior to the analysis of standards or samples.
- 10.2 <u>Wavelength Verification Spectrophotometers</u>. Spectrophotometer detectors are checked on a regular schedule to verify proper response to the wavelength of light needed for the test in use. If the detector response does not meet specifications, corrective action (detector adjustment or replacement) is performed prior to the analysis of standards or samples.
- 10.3 <u>Inter-element Interference Checks (Metals)</u>. Inductively Coupled Plasma Emission Spectrophotometers (ICP) are subject to a variety of spectral interferences, which can be minimized or eliminated by applying interfering element correction factors and background correction points. Interfering element correction factors are checked on a specified frequency through the analysis of check samples containing high levels of interfering elements. Analysis of single element interferant solutions is also conducted at a specified frequency.

If the check indicates that the method criteria have not been achieved for any element in the check standard, the analysis is halted and data from the affected samples are not reported. Sample analysis is resumed after corrective action has been performed and the correction factors have been re-calculated.

New interfering element correction factors are calculated and applied whenever the checks indicate that the correction factors are no longer meeting criteria. At a minimum, correction factors are replaced once a year.

Inductively Coupled Plasma – Mass Spectrometry (ICP-MS) also is subject to isobaric elemental and polyatomic ion interferences. These interferences are corrected through the use



of calculations. The accuracy of corrections is dependent on the sample matrix and instrument conditions and is verified by quality control checks on individual runs.

10.4 <u>Calibration and Calibration Verification</u>. Many tests require calibration using a series of reference standards to establish the concentration range for performing quantitative analysis. Instrument calibration is performed using standards that are traceable to national standards. Method specific procedures for calibration are followed prior to any sample analysis. In general, if a reference method does not specify the number of calibration standards, the minimum number is two (one of which is at the reporting limit or limit of quantitation).

Calibration is performed using a linear regression calculation or calibration factors calculated from the curve. The calibration must meet method specific criteria for linearity or precision. If the criteria are not achieved, corrective action (re-calibration or instrument maintenance) is performed. The instrument must be successfully calibrated before analysis of samples can be conducted.

Initial calibration for metals analysis performed using inductively coupled plasma (ICP) employs the use of a single standard and a calibration blank to establish linearity. Inductively Coupled Plasma – Mass Spectrometry (ICP-MS) can be calibrated using either a two point or a multi-point calibration, as long as all quality control criteria for the analysis can be achieved. The calibration blank contains all reagents that are placed into the calibration standard with the exception of the target elements. Valid calibration blanks must not contain any target elements.

Initial calibrations must be verified using a single concentration calibration standard from a second source (i.e. separate lot or different provider). The continuing validity of existing calibrations must be regularly verified using a single calibration standard. The response to the standard must meet pre-established criteria that indicate the initial calibration curve remains valid. If the criteria are not achieved corrective action (re-calibration) is performed before any additional samples may be analyzed.

If continuing calibration verification results are outside established criteria, data associated with the verification may be fully useable under the following conditions:

- When the acceptance criteria for the continuing calibration verification are exceeded high, i.e., high bias, and there are associated samples that are non-detects, then those non-detects may be reported.
- When the acceptance criteria for the continuing calibration verification are exceeded low, i.e., low bias, those sample results may be reported if they exceed a maximum regulatory limit/decision level.



Calibration verification is also performed whenever it appears that the analytical system is out of calibration or no longer meets the calibration requirements. It is also performed when the time period between calibration verifications has expired.

Sample results are quantitated from the initial instrument calibration unless otherwise required by regulation, method, or program specific criteria.

10.5 <u>Linear Range Verification and Calibration (ICP & ICP/MS Metals)</u>. Linear range verification is performed for all ICP and ICP/MS instrumentation. The regulatory program or analytical method specifies the verification frequency. A series of calibration standards are analyzed over a broad concentration range. The data from these analyses are used to determine the valid analytical range for the instrument. ICP instrument calibration is routinely performed using a single standard at a concentration within the linear range and a blank.

Some methods or analytical programs require a low concentration calibration check to verify that instrument sensitivity is sufficient to detect target elements at the reporting limit. The analytical method or regulatory program defines the criteria used to evaluate the low concentration calibration check. If the low calibration check fails criteria, corrective action is performed and verified through reanalysis of the low concentration calibration check before continuing with the field sample analysis. ICP-MS instrument calibration is normally performed using multiple standards within the linear range and a blank, but may be done with a single standard at a concentration within the linear range and a blank.

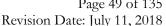
- 10.6 Retention Time Development and Verification (GC). Chromatographic retention time windows are developed for all analysis performed using gas chromatographs with conventional detectors. An initial experimental study is performed, which establishes the width of the retention window for each compound. The retention time width of the window defines the time ranges for elution of specified target analytes on the primary and confirmation columns. Retention time windows are established upon initial calibration, applying the retention time range from the initial study to each target compound. Retention times are regularly confirmed through the analysis of an authentic standard during calibration verification. If the target analytes do not elute within the defined range during calibration verification, the instrument must be recalibrated and new windows defined. New studies are performed when major changes, such as column replacement are made to the chromatographic system.
- **10.7 Equipment List.** See Appendix IV for a listing of all equipment used for measurement and/or calibration in laboratory processes.



#### 11.0 INSTRUMENT MAINTENANCE

**Requirement**. Documented procedures have been established for conducting equipment maintenance. The procedure includes maintenance schedules if required or documentation of daily maintenance activities. All instrument maintenance activities are documented in instrument specific logbooks.

- 11.1 <u>Routine, Daily Maintenance</u>. Routine, daily maintenance is required on an instrument specific basis and is performed each time the instrument is used. Daily maintenance includes activities to insure a continuation of good analytical performance. This may include performance checks that indicate if non-routine maintenance is needed. If performance checks indicate the need for higher level maintenance, the equipment is taken out of service until maintenance is performed. Analysis cannot be continued until all performance checks meet established criteria and a return to operational control has been demonstrated and documented. The individual assigned to the instrument is responsible for daily maintenance.
- 11.2 Non-routine Maintenance. Non-routine maintenance is initiated for catastrophic occurrences such as instrument failure. The need for non-routine maintenance is indicated by failures in general operating systems that result in an inability to conduct required performance checks or calibration. Equipment in this category is taken out of service, tagged accordingly and repaired before attempting further analysis. Before initiating repairs, all safety procedures for safe handling of equipment during maintenance, such as lock-out/tag-out are followed. Analysis is not resumed until the instrument meets all operational performance check criteria, is capable of being calibrated and a return to operational control has been demonstrated and documented. Section supervisors are responsible for identifying non-routine maintenance episodes and initiating repair activities to bring the equipment on-line. This may include initiating telephone calls to maintenance contractors if necessary. They are responsible for documenting all details related to the occurrence and repair.
- 11.3 <u>Scheduled Maintenance</u>. Modern laboratory instrumentation rarely requires regular preventative maintenance. If required, the equipment is placed on a schedule, which dictates when maintenance is needed. Examples include annual balance calibration by an independent provider or ICP preventative maintenance performed by the instrument manufacturer. Section supervisors are responsible for initiating scheduled maintenance on equipment in this category. Scheduled maintenance is documented using routine documentation practices.
- 11.4 <u>Maintenance Documentation</u>. Routine and non-routine maintenance activities are documented in logbooks assigned to instruments and equipment used for analytical measurements. The logbooks contain preprinted forms, which specify the required maintenance activities. The analyst or supervisor performing or initiating the maintenance activity is required to check the activity upon its completion and initial the form. This includes documenting that the instrument has been returned to operational control following the completion of the activity. Non-routine maintenance (repairs, upgrades) is documented on the back page of the service log.





### 12.0 QUALITY CONTROL PARAMETERS, PROCEDURES, AND CORRECTIVE ACTION

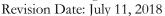
**Requirement**: All procedures used for test methods incorporate quality control parameters to monitor elements that are critical to method performance. Each quality parameter includes acceptance criteria that have been established by regulatory agencies for the methods in use. Criteria may also be established through client dictates or through the accumulation and statistical evaluation of internal performance data. Data obtained for these parameters during routine analysis must be evaluated by the analyst, and compared to the method criteria in use. If the criteria are not achieved, the procedures must specify corrective action and conformation of control before proceeding with sample analysis. QC parameters, procedures, and corrective action must be documented within the standard operating procedures for each method. In the absence of client specific objectives the laboratory must define qualitative objectives for completeness and representativeness of data.

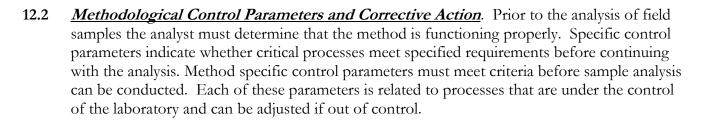
**Procedure.** Bench analysts are responsible for methodological quality control and sample specific quality control. Each method specifies the control parameters to be employed for the method in use and the specific procedures for incorporating them into the analysis. These control parameters are analyzed and evaluated with every designated sample group (batch).

The data from each parameter provides the analyst with critical decision making information on method performance. The information is used to determine if corrective action is needed to bring the method or the analysis of a specific sample into compliance. These evaluations are conducted throughout the course of the analysis. Each control parameter is indicative of a critical control feature. Failure of a methodological control parameter is indicative of either instrument or batch failure. Failure of a sample control parameter is indicative of control difficulties with a specific sample or samples.

Sample Batch. All samples analyzed in the laboratory are assigned to a designated sample batch, which contains all required quality control samples and a defined maximum number of field samples that are prepared and/or analyzed over a defined time period. The maximum number of field samples in the preparation batch is 20. SGS has incorporated The NELAC Institute (TNI) Standard batching policy as the sample-batching standard. This policy incorporates the requirement for blanks and spiked blanks as a time based function as defined by TNI Standard. Accordingly, the specified time period for a sample batch is 24 hours. Matrix spike/matrix spike duplicate, matrix spikes and duplicates are defined as sample frequency based functions and may be applied to several batches until the frequency requirement has been reached. A matrix spike/matrix spike duplicate, matrix spikes and/or duplicate is required every 20 samples.

Client criteria that defines a batch as a time based function which includes a matrix spike/matrix spike duplicates as a contractual specification will be honored. The typical batch contains a blank and a laboratory control sample (LCS or spiked blank). Batch documentation includes lot specifications for all reagents and standards used during preparation of the batch.



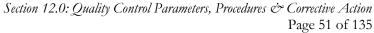


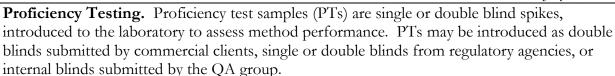
Method Blank. A method blank is analyzed during the analysis of any field sample. The method blank is defined as a sample. It contains the same standards (internal standards, surrogates, matrix modifiers, etc.) and reagents that are added to the field sample during analysis, with the exception of the sample itself. If the method blank contains target analytes(s) at concentrations that exceed method detection limit concentrations (organics) or reporting limit concentrations (inorganics), the source of contamination is investigated and eliminated before proceeding with sample analysis. Target analyte(s) in method blanks at concentrations no greater than one-half of the reporting limit concentrations (metals) may be requested on a client or project specific basis. Systematic contamination is documented for corrective action and resolved following the established corrective action procedures.

Laboratory Control Samples (LCS or Spiked Blanks). A laboratory control sample (spiked blank or commercially prepared performance evaluation sample) is analyzed along with field samples to demonstrate that method accuracy is within acceptable limits. These spike solutions may be from different sources than the sources of the solutions used for method calibration depending upon the method requirements. All target components are included in the spike mixture over a two year period. The performance limits are derived from published method specifications or from statistical data generated from the analysis of laboratory method performance samples. Spiked blanks are blank matrices (reagent water or clean sand) spiked with target parameters and analyzed using the same methods used for samples. Accuracy data is compared to laboratory derived limits to determine if the method is in control. Laboratory control samples (LCS) are commercially prepared spiked samples in an inert matrix. Performance criteria for recovery of spiked analytes are pre-established by the commercial entity preparing the sample. The sample is analyzed in the laboratory as an external reference.

Accuracy data is compared to the applicable performance limits. If the spike accuracy exceeds the performance limits, corrective action, as specified in the SOP for the method is performed and verified before continuing with a field sample analysis. In some cases, decisions are made to continue with sample analysis if performance limits are exceeded, provided the unacceptable result has no negative impact on the sample data.

Blanks and spikes are routinely evaluated before samples are analyzed. However, in situations where sample analysis is performed using an auto sampler, they may be evaluated after sample analysis has occurred. If the blanks and spikes do not meet criteria, sample analysis is repeated.





A minimum of two single blind studies must be performed each year for every parameter in aqueous and solid matrices for each field of testing for which the laboratory maintains accreditation. Proficiency samples must be purchased as blinds from an A2LA accredited vendor. Data from these studies are provided to the laboratory by the vendor and reported to accrediting agencies. If unsatisfactory performance is noted, corrective action is performed to identify and eliminate any sources of error. A new single blind must be analyzed if required to demonstrate continuing proficiency.

PT samples performed for accrediting agencies or clients, which do not meet performance specifications, require a written summary that documents the corrective action investigation, findings, and corrective action implementation. A copy of this summary shall be submitted to the TNI Standard Primary Accrediting Authority, NJDEP Office of Quality Assurance for review.

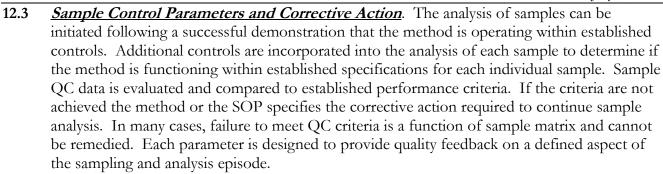
Single or double blind proficiency test samples may be employed for self-evaluation purposes. Data from these analyses are compared to established performance limits. If the data does not meet performance specifications, the system is evaluated for sources of acute or systematic error. If required, corrective action is performed and verified before initiating or continuing sample analysis.

Trend Analysis for Control Parameters. The quality assurance staff is responsible for continuous analytical improvement through quality control data trend analysis. Accuracy data for spiked parameters in the spiked blank are statistically evaluated weekly for trends indicative of systematic problems. Data from LCS parameters and surrogates are pooled on a method, matrix, and instrument basis. This data is evaluated by comparison to existing control and warning limits. Trend analysis is performed automatically as follows:

- Any point outside the control limit
- Any three consecutive points between the warning and control limits
- Any eight consecutive points on the same side of the mean.
- Any six consecutive points increasing or decreasing

The results of the trend analysis are transmitted as .PDF files for supervisory evaluation prior to sample analysis. Trends that indicate the potential loss of statistical control are further evaluated to determine the impact on data quality and to determine if corrective action is necessary. If corrective action is indicated, the supervisor informs the analysts of the corrective actions to be performed. Return to control is demonstrated before analysis resumes.





**Duplicates.** Duplicate sample analysis is used to measure analytical precision. This can also be equated to laboratory precision for homogenous samples. Precision criteria are method dependent. If precision criteria are not achieved, corrective action or additional action may be required. Recommended action must be completed before sample data can be reported.

**Laboratory Spikes & Spiked Duplicates.** Spikes and spiked duplicates are used to measure analytical precision and accuracy for the sample matrix selected. Precision and accuracy criteria are method dependent. If precision and accuracy criteria are not achieved, corrective action or additional action may be required. Recommended action must be completed before reporting sample data. All target components are included in the spike mixture over a two year period.

**Serial Dilution (Metals).** Serial dilutions of metals samples are analyzed to determine if analytical matrix effects may have impacted the reported data. If the value of the serially diluted samples does not agree with the undiluted value within a method-specified range, the sample matrix may be causing interferences, which may lead to either a high or low bias. If the serial dilution criterion is not achieved, it must be flagged to indicate possible bias from matrix effects.

**Post Digestion Spikes**. Digested samples are spiked and analyzed to determine if matrix interferences are biasing the results when the pre-digestion spike (matrix spike) recovery falls outside the control limits. It may also be used to determine potential interferences per client's specification. The sample is spiked at the concentration specified in the method SOP. No action is necessary if the post digestion spike is outside of the method criteria, unless a preparation problem is suspected with the spike, in which case the post digestion spike should be re-prepared and reanalyzed.

Surrogate Spikes (Organics). Surrogate spikes are organic compounds that are similar in behavior to the target analytes but unlikely to be found in nature. They are added to all quality control and field samples to measure method performance for each individual sample. Surrogate accuracy limits are derived from published method specifications or from the statistical evaluation of laboratory generated surrogate accuracy data. Accuracy data is compared to the applicable performance limits. If the surrogate accuracy exceeds performance limits, corrective action, as specified in the method or SOP is performed before sample data can be reported.



Internal Standards (Organic Methods). Internal standards are retention time and instrument response markers added to every sample to be used as references for quantitation. Their response is compared to reference standards and used to evaluate instrument sensitivity on a sample specific basis. Internal standard retention time is also compared to reference standards to assure that target analytes are capable of being located by their individual relative retention time.

If internal standard response criteria are not achieved, corrective action or additional action may be required. The recommended action must be completed before sample data can be reported.

If the internal standard retention time criteria are not achieved corrective action or additional action may be required. This may include re-calibration and re-analysis. Additional action must be completed before sample data is reported.

Internal Standards (ICP and ICP/MS Metals). Internal standards are used on ICP instruments to compensate for variations in response caused by differences in sample matrices. Multiple internal standards are used for each sample on ICP/MS instruments to compensate for variations in response caused by differences in sample matrices. This adjustment is performed automatically during sample analysis. The internal standard response of replicated sample analysis is monitored to detect potential analytical problems. If analytical problems are suspected, then the field samples may be reanalyzed or reanalyzed upon dilution to minimize the interferences. A different internal standard may be employed for quantitation in situations where the field sample contains the element typically used as the internal standard.

12.4 <u>Laboratory Derived Quality Control Criteria.</u> Control criteria for in-house methods and client specific modifications that exceed the scope of published methodology are defined and documented prior to the use of the method. The Quality Assurance Director is responsible for identifying additional control criteria needs. Control parameters and criteria, based on best technical judgment are established using input provided by the operations staff. These control parameters and criteria are documented and incorporated into the method.

The laboratory-derived criteria are evaluated for technical soundness on spiked samples prior to the use of the method on field samples. The technical evaluation is documented and archived by the Quality Assurance Staff.

When sufficient data from the laboratory developed control parameter is accumulated, the data is statistically processed and the experimentally derived control limits are incorporated into the method.

**Bench Review & Corrective Action.** The bench chemists are responsible for all QC parameters. Before proceeding with sample analysis, they are required to successfully meet all instrumental QC criteria. They have the authority to perform any necessary corrective action



before proceeding with sample analysis. Their authority includes the responsibility for assuring that departures from documented policies and procedures do not occur.

The bench chemists are also responsible for all sample QC parameters. If the sample QC criteria are not achieved, they are authorized and required to perform the method specified corrective action before reporting sample data.

Whenever possible, samples are analyzed straight to minimize detection and reporting limits. If dilutions need to be applied, the minimum dilution is used bring the target compounds in the range of the curve. This dilution may be determined from the original analysis or from screening data. If the target range is large, then multiple dilutions may be required to optimize reporting limits for the maximum number of targets. Up to 3 dilutions may be used for a given sample. In some cases, very high levels of an interfering target may force larger dilutions for other target compounds. In all cases a conservative approach to dilution is applied to minimize the increase of detection and reporting limits.

12.6 **<u>Data Qualifiers.</u>** An alpha character coding system is employed for defining use limitations for reported data. These limitations are applied to analytical data by the analyst to clarify the usefulness of the reported data for data user. Common data qualifiers and their definitions are as follows:

### Organics.

- J: Indicates an estimated value. Applied to calculated concentrations for tentatively identified compounds and qualitatively identified compounds whose concentration is below the reporting limit, but above the MDL.
- N: Indicates qualitative evidence of a tentatively identified compound whose identification is based on a mass spectral library search and is applied to all TIC results.
- C: Applied to pesticide data that has been qualitatively confirmed by GC/MS.
- B: Used for analytes detected in the sample and its associated method blank.
- E: Applied to compounds whose concentration exceeds the upper limit of the calibration range.

#### Metals and Inorganics.

- B: Applied if the reported concentration value was less than the reporting limit but greater than the MDL.
- U: Applied if the reading is less than the MDL (or IDL if IDL reporting is being used).
- E: Estimated concentration caused by the presence of interferences, normally applied when the serial dilution is out.



N: Spike sample recovery not within control limits.

- \*: Duplicate or matrix spike duplicate analysis not within control limits.
- 12.7 <u>Data Package Review</u>. SGS employs at least two levels of data review, the final review must be performed by a manager, supervisor or designated reviewer, to assure that reported data has satisfied all quality control criteria and that client specifications and requirements have been met. Each production department has developed specific data review procedures, which must be completed before data is released to the client.

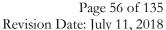
Analytical Review. The analyst conducts the primary review of all data. This review begins with a check of all instrument and method quality control and progresses through sample quality control, concluding with a check to assure that the client's requirements have been executed. Analyst checks focus on a review of qualitative determinations and checks of precision and accuracy data to verify that existing laboratory criteria have been achieved. Checks at this level may include comparisons with project specific criteria if applicable. The analyst has the authority and responsibility to perform corrective action for any out-of-control parameter or nonconformance at this stage of review.

Analysts who have met the qualification criteria for the method in use perform secondary, peer level data reviews. Analyst qualification requirements include a valid demonstration of capability and demonstrated understanding of the method SOP. Section supervisors may perform secondary review in-lieu of a peer review. Managers, Supervisors or designated reviewers evaluate 100% of the data produced by their department. It includes a check of all manual calculations; an accuracy check of manually transcribed data from bench sheets to the LIMS, a check of calibration and continuing calibration, all QC criteria and a comparison of the data package to client specified requirements. Also included are checks to assure the appropriate methodology was applied and that all anomalous information was properly flagged for communication in the case narrative. Supervisors have the authority to reject data and initiate re-analysis, corrective action, or reprocessing.

All laboratory data requiring manual entry into LIMS system is double-checked by the analysts performing initial data entry and the section supervisor. Verification of supervisory review is indicated on the raw data summary by the manager, supervisor, or designated reviewer's initials and date.

Electronic data that is manually edited at the bench by the primary analyst is automatically flagged by the instrument data system indicating an override by the analyst. All manual overrides must be verified and approved by a supervisor who initials and dates all manual changes.

Hard copies (or PDF) of manually integrated chromatographic peaks are printed that clearly depict the manually drawn baseline. The hard copy (or PDF) is reviewed and approved by the section manager, supervisor or designated reviewer (initialed and dated) and included in the





data package of all full tier reports or the archived batch records of commercial report packages.

Edits to electronic data that have already been committed to the LIMS database are controlled through the use of the Master Edit function in LIMS. Permission to access this program is limited to those approved by the upper levels of laboratory management and is controlled by the Information Technology staff. A GALP electronic audit record trail is maintained for all changes that are made and is automatically appended to the record.

The group manager performs a tertiary review on a spot check basis. This review includes an evaluation of QC data against acceptance criteria and a check of the data package contents to assure that all analytical requirements and specifications were executed.

**Report Generation Review.** The report generation group reviews all data and supporting information delivered by the laboratory for completeness and compliance with client specifications. Missing deliverables are identified and obtained from the laboratory. The group also reviews the completed package to verify that the delivered product complies with all client specifications. Non-analytical defects are corrected before the package is sent to the client.

Project Management/Quality Control Review. Spot-check data package reviews are performed by the project management staff. Project management reviews focus on project specifications. If the project manager identifies defects in the product prior to release, he initiates immediate corrective action to rectify the situation.

The QA staff performs a post-delivery check of completed data packages to verify completeness and compliance with established quality control procedures. Approximately 10% of data packages are reviewed. Detected deficiencies are brought to the laboratories attention and corrective actions initiated as necessary.

The QA review focuses on all elements of the deliverable including analytical quality control, sample custody documentation case narratives and data qualifiers QA reviews at this step in the production process are geared towards systematic process defects, which require procedural changes to effect a corrective action. However, if defects are identified that have an adverse effect on data, the client is immediately informed following standard notification procedures. QA data review is not used in lieu of a peer level review or a supervisory review.

**Data Reporting.** Analytical data is released to clients following a secondary review by the manager, supervisor or designated reviewer. Data release at this stage of the process is limited to electronic information, which is released to clients through a secure, encrypted, password protected, Internet connection. Hard copy support data is compiled by the report generation group and assembled into the final report. The report is sent to the client following reviews by the report generation staff.



All data reports include specified information, which is required to identify the report and its contents. This information includes a title, name and address of the laboratory, a unique report number, total number of pages in the report, clients name and address, analytical method identification, arriving sample condition, sample and analysis dates, test results with units of measurement, authorized signature of data release, statement of applicability, report reproduction restrictions and TNI Standard requirements certification. Data reports for the DOD Defense ELAP clients also include the time of preparation and analysis.

**Electronic Data Reduction.** Raw data from sample analysis is entered into the laboratory information management system (LIMS) using automated processes or manual entry. Final data processing is performed by the LIMS using procedures developed by the Company.

All LIMS programs are tested and validated prior to use to assure that they consistently produce correct results. The Information Technology Staff performs software validation testing. The testing procedures are documented in an SOP. Software programs are not approved for use until they have demonstrated that they are capable of performing the required calculations.

- **Representativeness.** Data representativeness is based on the premise that qualitative and quantitative information developed for field samples is characteristic of the sample that was collected by the client and analyzed in the laboratory. The laboratory objective for representativeness defines data as representative if the criteria for all quality parameters associated with the analysis of the sample are achieved.
- **Comparability**. Analytical data is defined as comparable when data from a sample set analyzed by the laboratory is representatively equivalent to other sample sets analyzed separately regardless of the analytical logistics. The laboratory will achieve 100% comparability for all sample data which meets the criteria for the quality parameters associated with its analysis using the method requested by the client.



#### 13.0 CORRECTIVE ACTION SYSTEM

**Requirement.** The laboratory employs policies and procedures for correcting defective processes, systematic errors, and quality defects enabling the staff to systematically improve product quality. The system includes procedures for communicating items requiring corrective action to responsible individuals, corrective action tracking procedures, corrective action documentation, monitoring of effectiveness, and reports to management. The system is fully documented in a standard operating procedure. Individual corrective actions and responses are documented in a dedicated database.

13.1 <u>Procedure</u>. Corrective action is the step that follows the identification of a process defect. The type of defect determines the level of documentation, communication, and training necessary to prevent re-occurrence of the defect or non-conformance. The formal system is maintained by the quality assurance department. Operations management is responsible for working within the system to resolve identified deficiencies.

**Routine Corrective Action**. Routine corrective action is defined as the procedures used to return out of control analytical systems back to control. This level of corrective action applies to all analytical quality control parameters or analytical system specifications.

Bench analysts have full responsibility and authority for performing routine corrective action. The resolution of defects at this level does not require a procedural change or staff re-training. The analyst is free to continue work once corrective action is complete and the analytical system has been returned to control. Documentation of routine corrective actions is limited to logbook comments for the analysis being performed.

**Process Changes**. Corrective actions in this category require procedural modifications. They may be the result of systematic defects identified during audits, the investigation of client inquiries, failed proficiency tests, product defects identified during data review, or method updates. Resolution of defects of this magnitude requires formal identification of the defect, development and documentation of a corrective action plan, and staff training to communicate the procedural change.

**Technical Corrective Action.** Technical corrective action encompasses routine corrective action performed by bench analysts for out of control systems and corrective actions performed for data produced using out of control systems. Technical corrective action for routine situations is conducted using the procedures detailed above.

Non-routine corrective actions apply to situations where the bench analysts failed to perform routine corrective action before continuing analysis. Supervisors and Department Managers perform corrective action in these situations. Documentation of all non-routine corrective actions is performed using the corrective action system.



Sample re-analysis is conducted if sufficient sample and holding time remain to repeat the analysis using an in-control system. If insufficient sample or holding time remains, the data is processed and qualifiers applied that describe the out of control situation. The occurrence is further documented in the case narrative and in the corrective action response. The corrective action must include provisions for retraining the analysts who failed to perform routine corrective action.

**Documentation & Communication**. Routine corrective actions are documented as part of the analytical record. Notations are made in the comments section of the analytical chronicle or data sheet detailing the nonconformance and corrective action. Continuation of the analysis indicates that return to control was successful.

Corrective actions for process changes are documented, tracked and monitored for effectiveness. Supervisors or senior staff members may initiate corrective actions by generating a corrective action using the corrective action database application.

The corrective action database is an Access application. The initiator generates the corrective action investigation form, which is documented, tracked, distributed to responsible parties and archived through the application. The application assigns a tracking number, initiation data and due date to each action and copies the corrective action form to the database. E-mail message containing the form is automatically distributed to the responsible parties for resolution.

The responsible party identifies the root cause of the defect, initiates the immediate fix and develops and implements the procedural change. Existing documentation such as SOPs are edited to reflect the change. The affected staff is informed of the procedural change through a formal training session. The training is documented and copies are placed into individual training files. The corrective action form is completed by the responsible party and returned to the QA staff via e-mail using the database application.

Initial and completed corrective action forms are maintained in the corrective action database. This entire database is backed up and archived daily. The corrective action tracking form is maintained as an active report in the database.

**Monitoring**. The QA Staff monitors the implemented corrective action until it is evident that the action has been effective and the defect has been eliminated. The corrective action database is updated by QA to reflect closure of the corrective action. The QA staff assigns an error code to the corrective action for classification of the type of errors being committed. Additional monitoring of the corrective action is conducted during routine laboratory audits.

Additional monitoring of the corrective action is conducted by adding the corrective action to a verification list by the QA staff at closure. Verification is performed by the QA Staff to assure that the corrective action has remained in effect is scheduled for six (6) months from the initial closure date.



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If QA determines that the corrective action response has not effectively remedied the deficiency, the process continues with a re-initiation of the corrective action. Corrective action continues until the defect is eliminated. If another procedural change is required, it is treated as a new corrective action, which is documented and monitored using established procedures.

Client Notification. Defective processes, systematic errors and/or quality defects may be detected during routine audits or data inquiries and may have negative impacts on data quality. In some cases, data affected may have been released to clients. If defective data has been released for use, SGS will identify and notify the affected clients of the defect and impact in accordance with Corrective Action SOP EQA011. For any Department of Defense (DoD) projects where instances of inappropriate and prohibited practices (as per the DoD QSM section 5.2.7) may have occurred, affected clients and the accrediting body (i.e., ANAB) must be notified within 15 business days of discovery and a corrective action plan must be provided within 30 business days of discovery.



#### 14.0 PROCEDURES FOR EXECUTING CLIENT SPECIFICATIONS

**Requirement.** Systems have been established for evaluating and processing client specifications for routine and non-routine analytical services. The systems enable the client services staff to identify, evaluate, and document the requested specifications to determine if adequate resources are available to perform the analysis. The system includes procedures for communicating the specifications to the laboratory staff for execution and procedures for verifying the specifications have been executed.

14.1 <u>Client Specific Requirements</u>. The project manager is the primary contact for clients requesting laboratory services. Client specifications are communicated using several mechanisms. The primary sources of information are the client's quality assurance project plan (QAPP) and the analytical services contract both of which detail the analytical, quality control and data reporting specifications for the project. In the absence of a QAPP, projects specifications can also be communicated using contracts, letters of authorization, or letters of agreement, which may be limited to a brief discussion of the analytical requirements and the terms and conditions for the work. These documents may also include pricing information, liabilities and scope of work, in addition to the analytical requirements. QAPPs include detailed analytical requirements and data quality objectives, which supersede those found in the referenced methods. This information is essential to successful project completion.

The client services staff provides additional assistance to clients who are unsure of the specifications they need to execute the sampling and analysis requirements of their project. They provide additional support to clients who require assistance in results interpretation as needed, provided they possess the expertise required to render an opinion.

The project manager is responsible for obtaining project documents, which specify the analytical requirements. Following project management and lab manager review, QAPPs are distributed to the QA staff for review and completion. The original QAPP is filed in a secure location.

For certain states or programs an additional form or checklist is required. In these instances QA must be notified if any new form is requested to confirm the accuracy of the new document.

14.2 <u>Requirements for Non-Standard Analytical Specifications</u>. Client requirements that specify departures from documented policies, procedures, or standard specifications must be submitted to SGS in writing. These requirements are reviewed and approved by the technical staff before the project is accepted. Once accepted, the non-standard requirements become analytical specifications, which follow the routine procedure for communicating client specifications. Departures from documented policies, procedures, or standard specifications that do not follow this procedure are not permitted.



- 14.3 <u>Evaluation of Resources.</u> A resource evaluation is completed prior to accepting projects submitted by clients. The evaluation is initiated by the client services staff who prepares a brief synopsis that includes the logistical requirements of the project. Logistical specifications for new projects are summarized in writing for evaluation by the affected departments. The specifications are evaluated by the department manager from a scheduling and hardware resources perspective. The project is not accepted unless the department managers have the necessary resources to execute the project according to client specifications.
- 14.4 <u>Documentation</u>. New projects are initiated using LIMS or a project set up form, which is completed prior to the start of the project. This form details all of the information needed to correctly enter the specifications for each client sample into the laboratory information management system (LIMS). The form includes data reporting requirements, billing information, data turnaround times, QA level, state of origin, and comments for detailing project specific requirements. The project manager is responsible for obtaining this information from the client and completing the form prior to sample arrival and login.

Sample receipt triggers project creation and the login process. The information on the set-up form is entered into the LIMS immediately prior to logging in the first sample. The set up form may be accompanied by a quotation, which details the analytical product codes and sample matrices. These details are also entered into the LIMS during login.

Special information is distributed to the laboratory supervisors and login department in electronic or hardcopy format upon project setup. All, project specific information is retained by the project manager in a secure file. The project manager maintains a personal telephone log, which details conversations with the client regarding the project.

Department managers prepare summary sheets that detail client specific analytical requirements for each test. Bench analysts use these sheets to obtain information regarding client specific analytical requirements before analyzing samples. A program code is established for each client that links the client specifications to a client project. This code is attached to a project by the project manager at login and listed on the work list for each work group conducting analysis for clients with standing requirements.

14.5 <u>Communication</u>. A pre-project meeting is held between client services and the operations managers to discuss the specifications described in the QAPP, contract and/or related documents. Project logistics are discussed and finalized and procedures are developed to assure proper execution of the client's analytical specifications and requirements. Questions, raised in the review meeting, are discussed with the client for resolution. Exceptions to any requirements, if accepted by the client, are documented and incorporated into the QAPP or project documentation records.

Non-standard specifications for individual clients are documented in the LIMS at the client account level or program level. Simple specifications are documented as comments for each project. Once entered into the LIMS, these specifications become memorialized for all



projects related to the client account. Complex specifications are assigned program codes that link the specification to detailed analytical specifications.

Upon sample arrival, these specifications are accessed through a terminal or printed as a hard copy and stored in a binder for individuals who require access to the specification. Specifications that are not entered into the LIMS are prohibited unless documented in an interdepartmental memo, which clearly identifies the project, client and effective duration of the specification.

- 14.6 **Operational Execution.** A work schedule is prepared for each analytical department on a daily basis. Analytical specifications or program codes from recently arrived samples have now been entered into the LIMS database. The database is sorted by analytical due date and holding time, into product specific groups. Samples are scheduled for analysis by due date and holding time. The completed schedule, which is now defined as a work list, is printed. The list contains the client requested product codes, program codes and specifications required for the selected sample(s). Special requirements are communicated to the analyst using the comments section or relayed through verbal instructions provided by the supervisor. The bench analyst assumes full responsibility for performing the analysis according to the specifications printed on the work sheet.
- 14.7 **Verification.** Prior to the release of data to the client, the report generation staff review the report and compare the completed product to the client specifications documentation to assure that all requirements have been met. Project managers may perform a spot check of projects with unique requirements to assure that the work was executed according to specifications.



#### 15.0 CLIENT COMPLAINT RESOLUTION PROCEDURE

**Requirement**. The laboratory follows a formal system for managing and reconciling client complaints. The system includes procedures for documenting the complaint and communicating it to the appropriate department for resolution. The system also includes a quality assurance evaluation to determine if the complaint is related to systematic defects requiring corrective action and process changes.

- 15.1 <u>Procedure</u>. Client complaints are communicated to client services representatives, quality assurance staff, or senior management staff for resolution. The individual receiving the complaint retains the responsibility for documentation and communicating the nature of the complaint to the responsible department(s) for resolution. The responsible party addresses the complaint. The resolution is communicated to the QA department and the originator for communication to the client. QA reviews the complaint and resolution to determine if systematic defects exist. If systematic defects are present, QA initiates a corrective action for the responsible party who develops and implements a response that eliminates the defect. If systematic defects are not present and the resolution is satisfactory, the QA Staff will close the complaint/inquiry with a no further action is necessary tag.
- 15.2 <u>Documentation</u>. Client's complaints are documented by the individual receiving the complaint using the Data Query and Corrective Action Inquiry Process. This process generates an E-Mail message that contains detailed information essential to the complaint resolution. A record of the telephone conversation is maintained by client services. The message is distributed to the QA staff and the party bearing responsibility for resolution by E-Mail. The complaint resolution is documented on the message by the responsible party and returned to the originator. A copy is sent to QA for review and database archiving. Positive feedback from clients is now documented in the program. In the past, these types of communications with clients were discussed at the Client Services Meeting, but were not tracked by SGS. Documenting this information can be used to improve service to all clients.
- 15.3 <u>Corrective Action</u>. Responses to data queries are required from the responsible party. At a minimum, the response addresses the query and provides an explanation to the complaint. Formal corrective action may focus on the single issue expressed in the complaint. Corrective action may include reprocessing of data, editing of the initial report, and re-issue to the client. If the QA review indicates a systematic error, process modification is required. The defective process at the root of the complaint is changed. SOPs are either created or modified to reflect the change. The party responsible for the process implements process changes.
- 15.4 **QA Monitoring.** Process changes, implemented to resolve systematic defects, are monitored for effectiveness by QA. If monitoring indicates that the process change has not resolved the defect, QA works with the department management to develop and implement an effective process. If monitoring indicates that the defect has been resolved, monitoring is slowly discontinued and the corrective action is closed. Continued monitoring is incorporated as an element of the annual system audit.



#### 16.0 CONTROL OF NONCONFORMING PRODUCT

**Requirement:** Policies and procedures have been developed and implemented that describe the procedures employed by the laboratory when any aspect of sample analysis or data reporting do not conform to established procedures or client specifications. These procedures include steps to ensure that process defects are corrected and affected work is evaluated to assess its impact to the client.

**Procedure.** Nonconforming product is identified through routine internal review and audit practices or through client inquiry. The individuals who identify the nonconformance or receiving a nonconformance inquiry immediately inform the Laboratory Director and the Quality Assurance Director. The Laboratory Director initiates an evaluation of the nonconformance through the Quality Assurance Department and takes full responsibility for managing the process and identifying the course of action to take, initiating corrective action and mitigating the impact of the nonconformance to the client. Reference SOP EQA 065 Control of Non-Conforming Product and EQA 038 Complaints & Data Inquiry for specific procedures on handling non-conformances and Data Inquires.

16.1 <u>Corrective Action.</u> The outcome of the evaluation dictates the course of action. This includes client notification when the quality of data reported has been impacted and may also include corrective action if applicable. Immediate corrective action is performed using the procedures specified in SGS SOP EQA011. However, additional action may be required including cessation of analysis and withholding and or recalling data reports. If the evaluation indicates that nonconforming data may have been issued to clients, the client is immediately notified and data may be recalled following the procedures specified in SOP EQA011. If work has been stopped because of a nonconformance, the Laboratory Director is the only individual authorized to direct a resumption of analysis.

Non-conformances caused by systematic process defects require retraining of the personnel involved as an element of the corrective action solution.



#### 17.0 CONFIDENTIALITY PROTECTION PROCEDURES

**Requirements**: Policies and procedures have been developed to protect client data from release to unauthorized parties or accidental release of database information through accidental electronic transmission or illegal intrusion. These policies have been communicated to clients and staff. Electronic systems are regularly evaluated for effectiveness.

17.1 <u>Client Anonymity</u>. Information related to the Company's clients is granted to employees on a "need to know" basis. An individual's position within the organization defines his "need to know". Individuals with "need to know" status are given password access to systems that contain client identity information and access to documents and document storage areas containing client reports and information. Access to client information by individuals outside of the Company is limited to the client and individuals authorized by the client.

Individuals outside of the Company may obtain client information through subpoena issued by a court of valid jurisdiction. Clients are informed when subpoenas are received ordering the release of their information.

Regulatory agency requests for data or reports:

If a regulatory agency requests additional data or a revised/upgraded report for regulatory drinking water work, the appropriate client services representative must be notified so that they will provide written and verbal notification to the client that the data is being provided to the agency. The notification to the client must come before the data is provided to the agency.

If a regulatory agency requests additional reports or data for any other type of work, the data cannot be released without the written approval from the client.

-For certain types of work (i.e. Hexavalent Chromium data), clients may provide, in advance, a written approval stating that data/reports can be provided to the state on request for that project.

In the case where SGS receives a subpoena or other legal request for data or a report, SGS Legal must be notified immediately and the following steps taken:

- -A copy of the Subpoena or legal request is sent to SGS Legal
- -SGS Legal is involved in the client notification process, the content of the notification, and how the client is notified
- -SGS Legal is involved in the response to the regulatory agency
- 17.2 <u>Documents</u>. Access to client documents is restricted to employees in need to know positions. Copies of all client reports are stored in secure electronic archives with restricted access. Reports and report copies are distributed to individuals who have been authorized by the client to receive them. Data reports or data are not released to third parties without verbally expressed or written permission from the client.



#### 17.3 Electronic Data.

**Database Intrusion**. Direct database entry is authorized for employees of SGS only on a need to know basis. Entry to the database is restricted through a user specific multiple password entry system. Direct access to the database outside the facility is possible through secured channels set up by SGS. A unique password is required for access to the local area network. A second unique password is required to gain access to the database. The staff receives read or write level authorization on a hierarchical privilege basis.

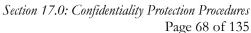
**Internet Access.** Access to client information is through an HTTP Web application only. It does not contain a mechanism that allows direct access to the database. Clients can gain access to their data only using a series of SGS assigned client and user specific passwords. The viewable data, which is encrypted during transmission, consists of an extraction of database information only.

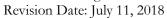
Client Accessibility. Accessibility to client data delivered via electronic means follows strict protocols to insure confidentiality. Clients accessing electronic data are assigned a company account. The account profile, which is established by the MIS staff, grants explicit access to specific information pertaining to the client's project activity. Passwords are assigned on an individual basis within a client account. These accounts can be activated or deactivated by the MIS staff only.

- 17.4 <u>Information Requests</u>. Client specific data or information is not released to third parties without verbally expressed or written permission from the client. Written permission is required from third parties, who contact the Company directly for the release of information. Verbal requests will be honored only if they are received directly from the client. These requests must be documented in a record of communication maintained by the authorized recipient.
- 17.5 <u>Transfer of Records</u>. Archived data, which has previously been reported and transmitted to clients, is the exclusive property of SGS. In the event of a cessation of business activities due to business failure or sale, The Company's legal staff will be directed to arrange for the final disposition of archived data.

The final disposition of archived data will be accomplished using the approach detailed in the following sequence:

- 1. All data will be transferred to the new owners for the duration of the required archive period as a condition of sale.
- 2. If the new owners will not accept the data or the business has failed, letters will be sent to clients listed on the most recent active account roster offering them the option to obtain specific reports (identified by SGS Job Number) at their own expense.







- 3. A letter will be sent to the TNI Standard accrediting authority with organizational jurisdiction over the company offering them the option to obtain all unclaimed reports at their own expense.
- 4. All remaining archived data will be recycled using the most expedient means possible.

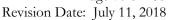


#### 18.0 QUALITY AUDITS AND SYSTEM REVIEWS

**Requirement**: The quality assurance group conducts regularly scheduled audits of the laboratory to assess compliance with quality system requirements, technical requirements of applied methodology, and adherence to documentation procedures. The information gathered during these audits is used to provide feedback to senior management and perform corrective action where needed for quality improvement purposes.

- 18.1 Quality System Reviews. Quality system reviews are performed annually by the Quality Assurance Director. In this review, the laboratory is evaluated for compliance with the laboratory Quality Systems Manual (QSM) and the quality system standards of the National Environmental Laboratory Accreditation Conference. Findings, which indicate non-compliance or deviation from the QSM, are flagged for corrective action. Corrective actions require either a return to compliance or a plan change to reflect an improved quality process. The Quality Assurance Director is responsible for making and documenting changes to the QSM.
- **Quality System Audits.** Quality system audits are conducted to evaluate the effectiveness and laboratory compliance with individual quality system elements. These audits are conducted on an established schedule. Audit findings are documented and communicated to the management staff and entered into the corrective action system for resolution. If necessary, retraining is conducted to assure complete understanding of the system requirements.
- 18.3 <u>Test Method Assessments.</u> Test Method Assessments are performed throughout the year following an established schedule. Selected analytical procedures are evaluated for compliance with standard operating procedures (SOPs) and method requirements. If non-conformances exist, the published method serves as the standard for compliance. SOPs are edited for compliance if the document does not reflect method requirements. Analysts are trained to the new requirements and the process is monitored by quality assurance. Analysts are retrained in method procedures if an evaluation of bench practices indicates non-compliance with SOP requirements.
- 18.4 <u>Documentation Audits</u>. Documentation audits are conducted during routine internal audits. The audit includes a check of measurement processes that require manual documentation. It also includes checks of data archiving systems and a search to find and remove any inactive versions of SOPs that may still be present in the laboratory and being accessed by the analysts. Non-conformances are corrected on the spot. Procedural modifications are implemented if the evaluation indicates a systematic defect.
- **18.5 Corrective Action Monitoring.** Defects or non-conformances that are identified during client or internal audits are documented in the corrective action systems (Section 13) and corrected through process modifications and/or retraining. Once a corrective action has been designed and implemented, it is monitored for compliance on a regular basis by the QA staff.





Spot corrections are performed if the staff is not following the new procedure. Monitoring of the corrective action continues until satisfactory implementation has been verified.

- 18.6 **Preventive Action.** Laboratory systems or processes, which may be faulty and pose the potential for non-conformances, errors, confusing reports or difficulties establishing traceability may be identified during internal audits. These items are highlighted for systematic change using the corrective action system and managed to resolution using the procedures for corrective action identified in EQA041.
- 18.7 **Management Reports.** Formal reports of all audit and proficiency testing activity are prepared for the management staff and presented as they occur. Additional reports may be presented orally at regularly scheduled staff meetings

Management reports may also address the following topics:

- Status and results of internal and external audits,
- Status and results of internal and external proficiency testing,
- Identification of quality control problems in the laboratory,
- Discussion of corrective action program issues,
- Status of external certifications and approvals,
- Status of staff training and qualifications,
- Discussion of new quality system initiatives.
- Recommendations for further action on listed items are included in the report.



#### 19.0 HEALTH AND SAFETY

#### Requirement.

The company health and safety program meets the requirements established by the Occupational Safety and Health Administration (OSHA) including applicable regional and local regulations and laws. All employees receive training on the program and are required to comply with its policies and procedures at every level within our organization.

#### 19.1 <u>Policy.</u>

SGS provides safe and healthy working conditions to all our employees (permanent and temporary), visitors, contractors and other stakeholders. We ensure that all our services and operations are performed and managed in such a way as to protect the environment.

The company will continuously assess and improve safety management systems, programs and tools towards our "Zero incident" target.

The company provides all necessary safety equipment, resources and training gives the Stop-Work-Authority to all employees and contractors in case of any risk to health, safety or environment.

#### 19.2 Responsibilities.

Management is responsible for ensuring full compliance with company safety policies and procedures and investigating any incidents including root cause analysis and corrective action.

The Vice President EHS and Lab Director are ultimately responsible for management decisions and actions pertaining to the health and safety program.

The Health, Safety & Environment Manager reviews and updates the health and safety program annually, establishes company-wide training, and performs inspections and audits to ensure that program elements are being implemented and compliance is being met.

Department Managers and Supervisors are responsible for daily operations, employee oversight, and ensuring the requirements of the health and safety program are practiced daily.

Employees are responsible for following all safety rules and the proper use of protective devices provided by the company. The employee is expected to comply with the requirements of the health and safety program at all times.



#### 19.3 Program Elements.

#### Safety Training and Communication.

All new employees to the company are provided health and safety training on their first day. Annual safety training is conducted for all employees. Additional training is provided when new substances, equipment, or procedures are introduced and when management is made aware of a situation that requires re-training.

Training is documented and appropriate records kept with Quality Assurance.

#### Safety Committee.

The safety committee meets on a regular basis and establishes an additional safety "presence" throughout the facility. The safety committee promotes knowledge of health and safety at all levels, identifies and notifies of any unsafe work practices and conditions, and participates in development of safety initiatives.

Membership in the safety committee is open to any employee and will be comprised of both management and employee representatives.

#### Hazard Communication.

The hazard communication program enables employees to readily identify any laboratory hazards and protect themselves from those hazards. The program complies with the OSHA Hazard Communication Standard, Title 29 Code of Federal Regulations 1910.1200 and includes the following:

- Safety Data Sheets (SDS) available to all employees
- Chemical inventory
- Globally harmonized system of classification and labeling of chemicals

#### Identification of Workplace Hazards.

The hazard identification procedures assure that hazards are identified and corrected before an incident occurs. Hazard identifications are reported to management by all employees and learnings are shared throughout the company.

#### Employee Exposure Assessment.

Employee exposure assessment is performed to identify and evaluate potential exposure hazards in the workplace. The exposure assessment data is used to document safe practices



and to determine if any changes or modifications may be required to improve the work environment.

#### Bloodborne Pathogens.

Awareness training on the OSHA Bloodborne Pathogen Standard, 29CFR1910.1030 is conducted to inform employees about standard precautions when someone is injured at work.

#### Chemical Hygiene Plan.

The Chemical Hygiene Plan meets the requirements established by the OSHA Occupational Exposure to Hazardous Chemicals in the Laboratory Standard, 29 CFR 1910.1450. The plan references best laboratory practices, engineering controls and personal protective equipment that are necessary when working in an environmental laboratory.

#### Chemical Spill Response.

The chemical spill response plan ensures immediate notification and corrective action in the event of a chemical spill.

Employees that are required to respond to an emergency spill are trained per the OSHA Hazardous Waste Operations and Emergency Response Standard, 29 CFR 1910.120.

#### Emergency Action & Evacuation.

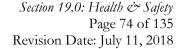
All employees are trained on what to do in the event of an emergency that includes fire, explosion, gas leak, hazardous material spill, natural disaster and terrorist action. The plan identifies emergency coordinators, building evacuation meeting areas, and contact information for local and national emergency responders.

#### Lockout/Tagout.

Lockout/tagout procedures are established to ensure that mechanical and electrical equipment is made inoperable and safe before experienced individuals perform inspection, maintenance and repair.

#### Personal Protective Equipment.

Personal protective equipment (PPE) is provided to employees that includes safety eyewear, laboratory coat and protective gloves. Other PPE may be provided such as safety shoes, hearing protection and respirators depending on specific job tasks.





#### Respiratory Protection.

The respiratory protection program assures proper training, medical evaluation and respirator selection and fit testing on an annual basis for employees that are required to wear this type of personal protective equipment.

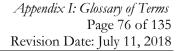
#### Visitor and Contractor Safety.

A safety presentation including brochure is given to all visitors. Visitors must sign in, wear a visitor badge, follow the instructions of their escort, and sign out before leaving the premises.



# Appendix I

Glossary of Terms





#### **GLOSSARY OF TERMS**

**Acceptance Criteria:** specified limits placed on characteristics of an item, process, or service defined in requirement documents.

**Accuracy**: the degree of agreement between an observed value and an accepted reference value. Accuracy includes a combination of random error (precision) and systematic error (bias) components which are due to sampling and analytical operations; a data quality indicator.

**Analyst**: the designated individual who performs the "hands-on" analytical methods and associated techniques and who is the one responsible for applying required laboratory practices and other pertinent quality controls to meet the required level of quality.

**Audit**: a systematic evaluation to determine the conformance to quantitative *and qualitative* specifications of some operational function or activity.

**Batch**: environmental samples that are prepared and/or analyzed together with the same process and personnel, using the same lot(s) of reagents. A preparation batch is composed of one to 20 environmental samples of the same TNI Standard defined matrix, meeting the above mentioned criteria and with a maximum time between the start of processing of the first and last sample in the batch to be 24 hours. An analytical batch is composed of prepared environmental samples (extracts, digestates or concentrates) which are analyzed together as a group.

**Blank (BLK):** a sample that has not been exposed to the analyzed sample stream in order to monitor contamination during sampling, transport, storage or analysis. The blank is subjected to the usual analytical and measurement process to establish a zero baseline or background value and is sometimes used to adjust or correct routine analytical results.

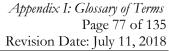
**Blind Sample**: a sub-sample for analysis with a composition known to the submitter. The analyst/laboratory may know the identity of the sample but not its composition. It is used to test the analyst's or laboratory's proficiency in the execution of the measurement process.

**Calibration**: to determine, by measurement or comparison with a standard, the correct value of each scale reading on a meter, instrument, or other device. The levels of the applied calibration standard should bracket the range of planned or expected sample measurements.

**Calibration Curve**: the graphical relationship between the known values, such as concentrations of a series of calibration standards and their instrument response.

Calibration Method: a defined technical procedure for performing a calibration.

**Calibration Range:** the range of concentrations between the lowest and highest calibration standards of a multi-level calibration curve. For metals analysis with a single-point calibration, the low-level





calibration check standard and the high standard establish the linear calibration range, which lies within the linear dynamic range.

Calibration Standard: a substance or reference material used to calibrate an instrument.

**Certified Reference Material (CRM)**: a reference material one or more of whose property values are certified by a technically valid procedure, accompanied by or traceable to a certificate or other documentation, which is issued by a certifying body.

**Chain of Custody (COC)**: an unbroken trail of accountability that ensures the physical security of samples and includes the signatures of all who handle the samples.

**Confirmation**: verification of the identity of a component through the use of an approach with a different scientific principle from the original method. These may include, but are not limited to second column confirmation, alternate wavelength, derivatization, mass spectral, interpretation, alternative detectors or, additional cleanup procedures.

Continuing Calibration Verification (CCV): the verification of the initial calibration that is required during the course of analysis at periodic intervals. Continuing calibration verification applies to both external standard and internal standard calibration techniques, as well as to linear and non-linear calibration models.

**Corrective Action (CA)**: the action taken to eliminate the causes of an existing nonconformity, defect or other undesirable situation in order to prevent recurrence.

**Data Reduction**: the process of transforming raw data by arithmetic or statistical calculations, standard curves, concentration factors, etc., and collation into a more useable form.

**Demonstration of Capability (DOC)**: a procedure to establish the ability of the analyst to generate acceptable accuracy.

**Documentation of Understanding (DOU):** certifies that the analyst or technician has read and understood the procedures detailed in the Standard Operating Procedure (SOP) and will follow the SOP as written.

**Document Control:** the act of ensuring that documents (and revisions thereto) are proposed, reviewed for accuracy, approved for release by authorized personnel, distributed properly and controlled to ensure use of the correct version at the location where the prescribed activity is performed.

**Duplicate Analyses (DUP)**: the analyses or measurements of the variable of interest performed identically on two sub-samples of the same sample. The results from duplicate analyses are used to evaluate analytical or measurement precision but not the precision of sampling, preservation or storage internal to the laboratory.



**Field of Testing**: TNI Standard's approach to accrediting laboratories by program, method and analyte. Laboratories requesting accreditation for a program-method-analyte combination or for an up-dated/improved method are required submit to only that portion of the accreditation process not previously addressed (see TNI Standard, section 1.9ff).

Laboratory Control Sample-LCS (such as laboratory fortified blank, spiked blank, or QC check sample): a sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes from a source independent of the calibration standards or a material containing known and verified amounts of analytes. It is generally used to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.

**Limit of Detection (LOD):** an estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte- and matrix-specific. DoD clarification is the smallest amount or concentration of a substance that must be present in a sample in order to be detected at a high level of confidence (99%). At the LOD, the false negative rate (Type II error) is 1%.

**Limit of Quantitation (LOQ):** the minimum levels, concentrations, or quantities of a target analyte that can be reported with a specified degree of confidence. DoD clarification is the lowest concentration that produces a quantitative result within specified limits of precision and bias. The LOQ shall be at or above the concentration of the lowest initial calibration standard.

**Matrix:** the component or substrate that contains the analyte of interest. For purposes of batch and QC requirement determinations, the following matrix distinctions shall be used:

Aqueous: any aqueous sample excluded from the definition of Drinking Water matrix or Saline/Estuarine source. Includes surface water, groundwater, effluents, and TCLP or other extracts.

Drinking Water: any aqueous sample that has been designated a potable or potential potable water source. Saline/Estuarine: any aqueous sample from an ocean or estuary, or other salt-water source such as the Great Salt Lake. Non-aqueous Liquid: any organic liquid with <15% settleable solids.

Solids: includes soils, sediments, sludges and other matrices with >15% settleable solids.

Chemical Waste: a product or by-product of an industrial process that results in a matrix not previously defined.

Air: whole gas or vapor samples including those contained in flexible or rigid wall containers and the extracted concentrated analytes of interest from a gas or vapor that are collected with a sorbent tube, impinger solution, filter, or other device.

Biota: animal or plant tissue, consisting of entire organisms, homogenates, and/or organ or structure specific subsamples.



Matrix Spike-MS (spiked sample or fortified sample): a sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. Matrix spikes are used, for example, to determine the effect of the matrix on a method's recovery efficiency.

Matrix Spike Duplicate -MSD (spiked sample or fortified sample duplicate): a second replicate matrix spike prepared in the laboratory and analyzed to obtain a measure of the precision of the recovery for each analyte.

**Method Blank (MB)**: a sample of a matrix similar to the batch of associated samples (when available) that is free from the analytes of interest, which is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences are present at concentrations that impact the analytical results for sample analyses.

**Method Detection Limit (MDL):** the minimum concentration of a substance (an analyte) that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix containing the analyte.

National Environmental Laboratory Accreditation Program (NELAP): the overall National Environmental Laboratory Accreditation Program.

**NELAP Standards**: the plan of procedures for consistently evaluating and documenting the ability of laboratories performing environmental measurements to meet nationally defined standards established by the National Environmental Laboratory Accreditation Conference.

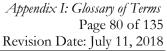
**Performance Audit:** the routine comparison of independently obtained *qualitative and quantitative* measurement system data with routinely obtained data in order to evaluate the proficiency of an analyst or laboratory.

**Precision**: the degree to which a set of observations or measurements of the same property, obtained under similar conditions, conform to themselves; a data quality indicator. Precision is usually expressed as standard deviation, variance or range, in either absolute or relative terms.

**Preservation**: refrigeration and/or reagents added at the time of sample collection (or later) to maintain the chemical and/or biological integrity of the sample.

**Proficiency Testing:** a means of evaluating a laboratory's performance under controlled conditions relative to a given set of criteria through analysis of unknown samples provided by an external source.

**Proficiency Test Sample (PT)**: a sample, the composition of which is unknown to the analyst and is provided to test whether the analyst/laboratory can produce analytical results within specified acceptance criteria.





**Quality Assurance (QA)**: an integrated system of activities involving planning, quality control, quality assessment, reporting and quality improvement to ensure that a product or service meets defined standards of quality with a stated level of confidence.

**Quality Control (QC)**: the overall system of technical activities whose purpose is to measure and control the quality of a product or service so that it meets the needs of users.

**Quality Manual**: a document stating the management policies, objectives, principles, organizational structure and authority, responsibilities, accountability, and implementation of an agency, organization, or laboratory, to ensure the quality of its product and the utility of its product to its users.

**Quality System**: a structured and documented management system describing the policies, objectives, principles, organizational authority, responsibilities, accountability, and implementation plan of an organization for ensuring quality in its work processes, products (items), and services. The quality system provides the framework for planning, implementing, and assessing work performed by the organization and for carrying out required QA and QC.

**Reporting Limits (RL):** the maximum or minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be quantified with the confidence level required by the data user.

Reagent Blank (method reagent blank or method blank): a sample consisting of reagent(s), without the target analyte or sample matrix, introduced into the analytical procedure at the appropriate point and carried through all subsequent steps to determine the contribution of the reagents and of the involved analytical steps.

**Reference Material:** a material or substance one or more properties of which are sufficiently well established to be used for the calibration of an apparatus, the assessment of a measurement method, or for assigning values to materials.

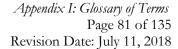
**Reference Method**: a method of known and documented accuracy and precision issued by an organization recognized as competent to do so.

**Reference Standard**: a standard, generally of the highest metrological quality available at a given location, from which measurements made at that location are derived.

**Replicate Analyses:** the measurements of the variable of interest performed identically on two or more sub-samples of the same sample within a short time interval.

Sample Duplicate (SD): two samples taken from and representative of the same population and carried through all steps of the sampling and analytical procedures in an identical manner. Duplicate samples are used to assess variance of the total method including sampling and analysis.

**Spike:** a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery efficiency or for other quality control purposes.



**Standard:** the document describing the elements of laboratory accreditation that has been developed and established within the consensus principles of TNI Standard and meets the approval requirements of TNI Standard procedures and policies.

**Traceability:** the property of a result of a measurement whereby it can be related to appropriate standards, generally international or national standards, through an unbroken chain of comparisons.

Validation: the process of substantiating specified performance criteria.

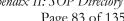
**Work Cell:** A defined group of analysts that together perform the method analysis. Members of the group and their specific functions within the work cell must be fully documented. A "work cell" is considered to be all those individuals who see a sample through the complete process of preparation, extraction, or analysis. The entire process is completed by a group of capable individuals; each member of the work cell demonstrates capability for each individual step in the method sequence.



## Appendix II

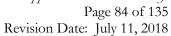
# Standard Operating Procedures Directory SGS - Dayton

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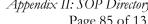


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<u>Section</u>	Standard Operating Procedure Title	<u>Number</u>
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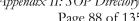
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information recir	Data Systems Manifematice and Information Handling	Liviloud
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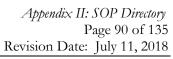


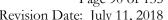
<u>Section</u>	Standard Operating Procedure Title	Number
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Quality Assurance	Creating/Distributing/Tracking Internal Chains Of Custody	EQA017 EQA018
Quality Assurance	Creating New Accounts	EQA019
Quality Assurance	Creating New Projects	EQA020
Zumity 110501mice	Stemming Tiew Trojecto	-~1020

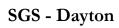




<u>Section</u>	Standard Operating Procedure Title	Number
Quality Assurance	Creating Product Codes	EQA021
Quality Assurance	Procedures For The Purchase Of Laboratory Supplies	EQA023
Quality Assurance	Control & Archiving Of Laboratory Documents	EQA025
Quality Assurance	Confidentiality Protection Procedures	EQA027
Quality Assurance	Quality System Review	EQA028
Quality Assurance	Contract Review	EQA029
Quality Assurance	Procedure for the Development and Application of MDLs and RLs	EQA030
Quality Assurance	Subcontracting Procedures	EQA031
Quality Assurance	Signature Authority	EQA032
Quality Assurance	Review of Inorganic Data	EQA034
Quality Assurance	Review of Organic Data	EQA035
Quality Assurance	Documentation of Equipment Maintenance	EQA036
Quality Assurance	Procedures for Accepting Departures from Laboratory Specifications	EQA037
Quality Assurance	Client Complaints Resolution Procedure	EQA038
Quality Assurance	Employee Technical Ethics Responsibilities	EQA039
Quality Assurance	Internal Audit Procedure	EQA041
Quality Assurance	Procedure for Obtaining Representative Sample Aliquots	EQA042
Quality Assurance	Procedure for Development &use of In-House Q C Criteria	EQA043
Quality Assurance	Manual Integration of Chromatographic Peaks	EQA044
Quality Assurance	Deionized Water Quality Control	EQA046
Quality Assurance	Management and Control of Change	EQA047
Quality Assurance	Laboratory Equipment Purchase and Removal From Service	EQA048
Quality Assurance	Calibration of Microliter Syringes	EQA049
Quality Assurance	Autosampler Vial Labeling Procedure (formally EOP041-01)	EQA050
Quality Assurance	pH for Volatile Samples	EQA051
Quality Assurance	Quality Control Review of Data Packages	EQA054
Quality Assurance	Procedures for Determining Method Comparability	EQA055
Quality Assurance	Refrigerator Storage Holding Blank Procedure	EQA056
Quality Assurance	Data Integrity Training Procedure	EQA057
Quality Assurance	Data Integrity Monitoring Procedure	EQA058
Quality Assurance	Procedure for Conducting Data Integrity Investigations	EQA059
•	Quality Control Requirements for Organics by GC/GCMS using EPA 500 & 600	-
Quality Assurance	Series, SW846 8000 Series and CLP Methodologies	EQA060
Quality Assurance	Procedure for the Confidential Reporting of Data Integrity Issues	EQA061
Quality Assurance	Calibration of Volumetric Dispensers for Volume Critical Processes	EQA062
Quality Assurance	Calibration of Volumetric Dispensers / Non-Critical Volumes Processes	EQA063
Quality Assurance	Glassware Preparation for use in VOA analysis	EQA064
Quality Assurance	Control of Non-Conforming Product	EQA065
Quality Assurance	Client Notification of Key Personnel Changes	EQA066
Quality Assurance	Review of Inorganic Notebooks	EQA067
Quality Assurance	Disposal of Spent Semi-Volatile Organic Extracts	EQA068
Quality Assurance	Compressed Gas Management	EQA069
Quality Assurance	Procedure for Tracking Quality Control Non-Conformances	EQA070
	Procedure for the Development and Application of Experimental Method Detection	
Quality Assurance	Limits, limits of detection, and limits of quantitation for inorganic applications	EQA071
Quality Assurance	Procedure for Particle Size Reduction (Crushing)/Homogenization of solid matrices	EQA072







<u>Section</u>	Standard Operating Procedure Title	<u>Number</u>
Report Generation	Report Generation–Data Package	ERG002
Sample Mgmt. Sample Mgmt. Sample Mgmt. Sample Mgmt. Sample Mgmt. Sample Mgmt.	Sample Storage Chain Of Custody And Log In Procedure Temperature Maintenance Of Shipping Coolers Cooler Packaging And Shipping Procedure Procedures for Sample Couriers Summa Canister Shipment & Retrieval: NJDEP 03-X-35135	ESM001 ESM002 ESM004 ESM008 ESM011 ESM012
- F - S	r	



Appendix II: SOP Directory
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# Appendix III Analytical Capabilities



#### Annual Certified Parameter List

SGS ACCUTEST INC. - DAYTON (Lab ID Number: 12129) 2235 US Hwy 130, Dayton, NJ 08810

Downloade

December 6, 2017 https://www13.state.nj.us/DataMiner

	IANCY COLE
E-mail Address na	ancy.cole@sgs.com
Contact Phone Number 73	32-329-0200
Fax Number 73	32-329-3499

							Internal I	1-1-1
Parameter	Matrix	Status	Approved Method	Teohnique	Parameter	Eligible to Report NJ	Nelap State or Country	Latest Certification
	Code				Code	Data	Code	Status Date
Acetaidehyde	AE	Certified	EPA TO-15	GCMS, Canisters	AE04.03500	Yes	NJ	3/5/2004
Acetone	AE	Certified	EPA TO-15	GC/M8, Canisters	AE04.03510	Yes	NJ	12/1/2006
Acetonitrie	AE AE	Certified	EPA TO-15	GC/MS, Canisters	AE04.03520	Yes	NJ	9/8/2016
Acetophenone Acrolein	AE	Certified Certified	EPA TO-15 EPA TO-15	GCM8, Canisters GCM8, Canisters	AE04.03530 AE04.03540	Yes	NJ NJ	3/5/2004 3/5/2004
	AE		EPA TO-15 EPA TO-15	GC/M8, Canisters	AE04.03540 AE04.03550	Yes		
Acrylamide Acrylic acid	AE	Certified Certified	EPA TO-15	GC/M8, Canisters	AE04.03550	Yes	NJ NJ	3/5/2004 3/5/2004
Acrylonitrie	AE	Certified	EPA TO-15	GCMS, Canisters	AE04.03570	Yes	NJ	9/8/2016
Allyl chloride	AE	Certified	EPA TO-15	GC/MS, Canisters	AE04.03580	Yes	NJ	3/5/2004
Benzene	AE	Certified	EPA TO-15	GC/MS, Canisters	AE04.03600	Yes	NJ	3/5/2004
Benzyl chloride	AE	Certified	EPA TO-15	GC/MS, Canisters	AE04.03610	Yes	NJ	3/5/2004
Bis (2-chloroethyl) ether	ΑE	Certified	EPA TO-15	GC/MS, Canisters	AE04.03620	Yes	NJ	3/5/2004
Bis (chloromethyl) ether	ΑE	Certified	EPA TO-15	GC/MS, Canisters	AE04.03630	Yes	NJ	3/5/2004
Bromodichioromethane	ΑE	Certified	EPA TO-15	GCMS, Canisters	AE04.03640	Yes	NJ	3/5/2004
Bromoform	AE	Certified	EPA TO-15	GC/MS, Canisters	AE04.03650	Yes	NJ	3/5/2004
Bromomethane	ΑE	Certified	EPA TO-15	GCMS, Canisters	AE04.03660	Yes	NJ	3/5/2004
Butadiene (1,3-)	ΑE	Certified	EPA TO-15	GCMS, Canisters	AE04.03670	Yes	NJ	3/5/2004
Butadiene (2-chloro-1,3-)	AE	Certified	EPA TO-15	GC/MS, Canisters	AE04.03680	Yes	NJ	3/5/2004
Butylbenzene (n-)	AE	Certified	EPA TO-15	GC/MS, Canisters	AE04.03690	Yes	NJ	9/8/2016
Carbon disulfide	ΑE	Certified	EPA TO-15	GC/MS, Canisters	AE04.03700	Yes	NJ	3/5/2004
Carbon oxysulfide (Carbonyl sulfide)	AE	Certified	EPA TO-15	GC/MS, Canisters	AE04.03710	Yes	NJ	3/5/2004
Carbon tetrachloride	AE	Certified	EPA TO-15	GCM8, Canisters	AE04.03720	Yes	NJ	3/5/2004
Catechol	AE	Certified	EPA TO-15	GCM8, Canisters	AE04.03730	Yes	NJ	3/5/2004
Chioroacetic acid	AE	Certified	EPA TO-15	GCMS, Canisters	AE04.03740	Yes	NJ	3/5/2004
Chlorobenzene	AE	Certified	EPA TO-15	GC/MS, Canisters	AE04.03750	Yes	NJ	3/5/2004
Chioroethane	AE	Certified	EPA TO-15	GCMS, Canisters	AE04.03760	Yes	NJ	3/5/2004
Chioroform	ΑE	Certified	EPA TO-15	GC/M8, Canisters	AE04.03770	Yes	NJ	3/5/2004
Chloromethane	AE AE	Certified	EPA TO-15	GCMS, Canisters GCMS, Canisters	AE04.03780	Yes Yes	NJ	3/5/2004
Chloromethyl methyl ether	AE	Certified	EPA TO-15 EPA TO-15	GC/MS, Canisters	AE04.03790	Yes	NJ	3/5/2004
Chlorotoluene (2-)	AE	Certified Certified	EPA 10-15	GCMS, Canisters	AE04.03800 AE04.03810	Yes	NJ NJ	3/5/2004 3/5/2004
Cresois/Cresylic acid Cyclohexane	AE	Certified	EPA TO-15	GCMS, Canisters	AE04.03820	Yes	NJ	3/5/2004
Diazomethane	AE	Certified	EPA TO-15	GC/MS, Canisters	AE04.03830	Yes	NJ	3/5/2004
Dibromo-3-chioropropane (1,2-)	AE	Certified	EPA TO-15	GC/MS, Canisters	AE04.03840	Yes	NJ	3/5/2004
Dibromochioromethane	AE	Certified	EPA TO-15	GC/MS, Canisters	AE04.03850	Yes	NJ	2/15/2007
Dibromoethane (1,2-) (EDB)	ΑE	Certified	EPA TO-15	GC/MS, Canisters	AE04.03860	Yes	NJ	3/5/2004
Dichlorobenzene (1,2-)	ΑE	Certified	EPA TO-15	GC/MS, Canisters	AE04.03870	Yes	NJ	3/5/2004
Dichlorobenzene (1,3-)	ΑE	Certified	EPA TO-15	GC/MS, Canisters	AE04.03880	Yes	NJ	3/5/2004
Dichlorobenzene (1,4-)	ΑE	Certified	EPA TO-15	GCM8, Canisters	AE04.03890	Yes	NJ	3/5/2004
Dichiorodifluoromethane	ΑE	Certified	EPA TO-15	GC/MS, Canisters	AE04.03900	Yes	NJ	3/5/2004
Dichloroethane (1,1-)	ΑE	Certified	EPA TO-15	GC/MS, Canisters	AE04.03910	Yes	NJ	3/5/2004
Dichloroethane (1,2-)	AE	Certified	EPA TO-15	GC/MS, Canisters	AE04.03920	Yes	NJ	3/5/2004
Dichioroethene (1,1-)	ΑE	Certified	EPA TO-15	GC/MS, Canisters	AE04.03930	Yes	NJ	3/5/2004
Dichloroethene (cis-1,2-)	AE AE	Certified	EPA TO-15 EPA TO-15	GCMS, Canisters	AE04.03940	Yes	NJ	2/15/2007
Dichioroethene (trans-1,2-)	AE	Certified	EPA TO-15	GC/MS, Canisters	AE04.03950 AE04.03960	Yes	NJ	3/5/2004 3/5/2004
Dichiorofluoromethane Dichioropropane (1,2-)	AE	Certified	EPA TO-15	GCMS, Canisters GCMS, Canisters	AE04.03960 AE04.03970	Yes Yes	NJ NJ	3/5/2004
Dichioropropene (ris-1.3-)	AE	Certified	EPA TO-15	GCMS, Canisters	AE04.03980	Yes	NJ	3/5/2004
Dichioropropene (trans-1,3-)	AE	Certified	EPA TO-15	GCMS, Canisters	AE04.03990	Yes	NJ	2/15/2007
Dichiorotetrafluoroethane (1,2-)	AE	Certified	EPA TO-15	GC/MS. Canisters	AE04.04000	Yes	NJ	3/5/2004
Diethyl sulfate	AE	Certified	EPA TO-15	GCMS, Canisters	AE04.04010	Yes	NJ	3/5/2004
Dimethyl formamide (N, N-)	AE	Certified	EPA TO-15	GC/MS, Canisters	AE04.04020	Yes	NJ	3/5/2004
Dimethyl sulfate	AE	Certified	EPA TO-15	GC/MS, Canisters	AE04.04040	Yes	NJ	3/5/2004
Dimethylcarbamoyl chloride	AE	Certified	EPA TO-15	GC/M8, Canisters	AE04.04060	Yes	NJ	3/5/2004
Dioxane (1,4-)	ΑE	Certified	EPA TO-15	GC/M8, Canisters	AE04.04070	Yes	NJ	3/5/2004
Epichiorohydrin	AE	Certified	EPA TO-15	GCMS, Canisters	AE04.04080	Yes	NJ	3/5/2004
Epoxybutane (1,2-)	ΑE	Certified	EPA TO-15	GC/MS, Canisters	AE04.04090	Yes	NJ	3/5/2004
Ethanol	AE	Certified	EPA TO-15	GC/MS, Canisters	AE04.04100	Yes	NJ	7/16/2008
Ethyl acetate	AE	Certified	EPA TO-15	GC/MS, Canisters	AE04.04110	Yes	NJ	2/15/2007
Ethyl acrylate	ΑE	Certified	EPA TO-15	GC/MS, Canisters	AE04.04120	Yes	NJ	3/5/2004
Ethylbenzene	ΑE	Certified	EPA TO-15	GC/MS, Canisters	AE04.04140	Yes	NJ	3/5/2004
Ethyltoluene (4-)	AE AE	Certified Certified	EPA TO-15 EPA TO-15	GCMS, Canisters GCMS, Canisters	AE04.04170 AE04.04200	Yes Yes	NJ NJ	3/5/2004 3/5/2004
Heptane (n-)			EPA TO-15 EPA TO-15		AE04.04200 AE04.04210			3/5/2004 3/5/2004
Hexachlorobutadiene (1,3-) Hexachloroethane	AE AE	Certified	EPA TO-15 EPA TO-15	GCMS, Canisters GCMS, Canisters	AE04.04210 AE04.04220	Yes	NJ NJ	3/5/2004
Hexane (n-)	AE	Certified	EPA TO-15	GC/M8, Canisters	AE04.04230	Yes	NJ	3/5/2004
Hexanone (2-)	AE	Certified	EPA TO-15	GCIMS, Canisters	AE04.04240	Yes	NJ	7/1/2007
Isophorone	AE	Certified	EPA TO-15	GCMS, Caristers	AE04.04250	Yes	NJ	3/5/2004
Isopropanol	AE	Certified	EPA TO-15	GCMS, Canisters	AE04.04250	Yes	NJ	7/16/2008
Isopropylbenzene	AE	Certified	EPA TO-15	GCMS, Canisters	AE04.04270	Yes	NJ	3/5/2004
Methyl ethyl ketone (MEK)	AE	Certified	EPA TO-15	GC/MS, Canisters	AE04.04290	Yes	NJ	3/5/2004
Methyl lodide	AE	Certified	EPA TO-15	GC/MS, Canisters	AE04.04300	Yes	NJ	3/5/2004
Methyl Isobutyl ketone (MIBK)	AE	Certified	EPA TO-15	GC/MS, Canisters	AE04.04310	Yes	NJ	3/5/2004
Methyl isocyanate	AE	Certified	EPA TO-15	GC/MS, Canisters	AE04.04320	Yes	NJ	3/5/2004
Methyl methacrylate	AE	Certified	EPA TO-15	GC/MS, Canisters	AE04.04330	Yes	NJ	3/5/2004
Methyl tert-butyl ether	AE	Certified	EPA TO-15	GC/MS, Canisters	AE04.04340	Yes	NJ	3/5/2004
Methylene chloride	ΑE	Certified	EPA TO-15	GC/MS, Canisters	AE04 04350	Yes	NJ	3/5/2004
(Dichloromethane)		Gerulled	EA IVIS		7-EU-10435U			3/5/2004



Methylphenol (2-)	ΑE	Certified	EPA TO-15	GC/M8, Canisters	AE04.04370	Yes	NJ	3/5/2004
Naphthalene	ΑE	Certified	EPA TO-15	GC/MS, Canisters	AE04.04380	Yes	NJ	7/24/2009
Nitrobenzene	ΑE	Certified	EPA TO-15	GC/MS, Canisters	AE04.04390	Yes	NJ	3/5/2004
Nitropropane (2-)	ΑE	Certified	EPA TO-15	GC/MS, Canisters	AE04.04400	Yes	NJ	3/5/2004
N-Nitrosodimethylamine	ΑE	Certified	EPA TO-15	GC/MS, Canisters	AE04.04410	Yes	NJ	3/5/2004
N-Nitrosomorpholine	ΑE	Certified	EPA TO-15	GC/MS, Canisters	AE04.04420	Yes	NJ	3/5/2004
N-Nitroso-N-methylurea	ΑE	Certified	EPA TO-15	GC/MS, Canisters	AE04.04430	Yes	NJ	3/5/2004
Phenoi	ΑE	Certified	EPA TO-15	GC/MS, Canisters	AE04.04440	Yes	NJ	3/5/2004
Phosgene	ΑE	Certified	EPA TO-15	GC/M8, Canisters	AE04.04450	Yes	NJ	3/5/2004
Propane sultone (1,3-)	ΑE	Certified	EPA TO-15	GC/M8, Canisters	AE04.04460	Yes	NJ	3/5/2004
Propiolactone (beta-)	ΑE	Certified	EPA TO-15	GC/MS, Canisters	AE04.04470	Yes	NJ	3/5/2004
Propionaldehyde	ΑE	Certified	EPA TO-15	GC/MS, Canisters	AE04.04480	Yes	NJ	3/5/2004
Propylbenzene (n-)	ΑE	Certified	EPA TO-15	GC/MS, Canisters	AE04.04490	Yes	NJ	9/8/2016
Propylene	ΑE	Certified	EPA TO-15	GC/MS, Canisters	AE04.04510	Yes	NJ	2/15/2007
Propylene oxide	ΑE	Certified	EPA TO-15	GC/MS, Canisters	AE04.04520	Yes	NJ	3/5/2004
Sec-butylbenzene	AE	Certified	EPA TO-15	GCM8, Canisters	AE04.04540	Yes	NJ	1/18/2017
Styrene	ΑE	Certified	EPA TO-15	GC/MS, Canisters	AE04.04550	Yes	NJ	3/5/2004
Styrene oxide	ΑE	Certified	EPA TO-15	GC/MS, Canisters	AE04.04560	Yes	NJ	3/5/2004
Tert-butyl alcohol	ΑE	Certified	EPA TO-15	GC/MS, Canisters	AE04.04570	Yes	NJ	2/15/2007
Tetrachioroethane (1,1,2,2-)	ΑE	Certified	EPA TO-15	GC/MS, Canisters	AE04.04590	Yes	NJ	3/5/2004
Tetrachloroethene	ΑE	Certified	EPA TO-15	GC/MS, Canisters	AE04.04600	Yes	NJ	3/5/2004
Tetrahydrofuran	ΑE	Certified	EPA TO-15	GC/MS, Canisters	AE04.04610	Yes	NJ	2/15/2007
Toluene	AE	Certified	EPA TO-15	GCM8, Canisters	AE04.04620	Yes	NJ	2/15/2007
Trichloro (1,1,2-) trifluoroethane								
(1,2,2-)	ΑE	Certified	EPA TO-15	GC/MS, Canisters	AE04.04630	Yes	NJ	2/15/2007
Trichlorobenzene (1,2,4-)	AE	Certified	EPA TO-15	GC/MS, Canisters	AE04 04640	Yes	NJ	3/5/2004
Trichloroethane (1,1,1-)	AE	Certified	EPA TO-15	GCM8, Canisters	AE04.04650	Yes	NJ	3/5/2004
	AE	Certified	EPA TO-15		AE04.04650		NJ	
Trichlomethane (1,1,2-)				GCMS, Canisters		Yes		3/5/2004
Trichloroethene	AE.	Certified	EPA TO-15	GCMS, Canisters	AE04.04670	Yes	NJ	3/5/2004
Trichlorofluoromethane	ΑE	Certified	EPA TO-15	GCMS, Canisters	AE04.04680	Yes	NJ	7/1/2007
Trifluorochioroethene (HCFC-	AE	Certified	EPA TO-15	GCM8, Canisters	AE04.04696	Yes	NJ	10/18/2016
1113)	_							
Triffuoro (1,1,2-) dichioroethane	AE	Certified	EPA TO-15	GC/M8. Canisters	AE04.04698	Yes	NJ	10/18/2016
(1,2-) (HCFC-123a)								
Trifluoromethane	ΑE	Certified	EPA TO-15	GC/MS, Canisters	AE04.04700	Yes	NJ	3/5/2004
Trimethylbenzene (1,2,4-)	ΑE	Certified	EPA TO-15	GC/MS, Canisters	AE04.04710	Yes	NJ	3/5/2004
Trimethylbenzene (1,3,5-)	ΑE	Certified	EPA TO-15	GC/MS, Canisters	AE04.04720	Yes	NJ	3/5/2004
Trimethylpentane (2,2,4-)	ΑE	Certified	EPA TO-15	GC/M8, Canisters	AE04.04730	Yes	NJ	3/5/2004
Vinyl acetate	ΑE	Certified	EPA TO-15	GC/M8, Canisters	AE04.04740	Yes	NJ	3/5/2004
Vinyi bromide	ΑE	Certified	EPA TO-15	GC/MS, Canisters	AE04.04750	Yes	NJ	3/5/2004
Vinyl chloride	ΑE	Certified	EPA TO-15	GC/MS, Canisters	AE04.04760	Yes	NJ	3/5/2004
Xylene (m-)	ΑE	Certified	EPA TO-15	GC/M8, Canisters	AE04.04770	Yes	NJ	3/5/2004
Xylene (o-)	ΛE	Certified	EPA TO-15	GC/MS, Canisters	AE04.04780	Yes	NJ	3/5/2004
Xylene (p-)	ΑE	Certified	EPA TO-15	GC/MS, Canisters	AE04.04790	Yes	NJ	3/5/2004
Xylenes (total)	ΑE	Certified	EPA TO-15	GC/MS, Canisters	AE04.04800	Yes	NJ	3/5/2004
Benzene	ΑE	Applied	EPA TO-17	GC/MS, Sorbent Tubes	AE04.04910	No	NJ	11/5/2015
Benzyl chloride	ΑE	Applied	EPA TO-17	GC/MS, Sorbent Tubes	AE04.04920	No	NJ	4/16/2015
Bromodichioromethane	ΛE	Applied	EPA TO-17	GC/MS, Sorbent Tubes	AE04.04930	No	NJ	4/16/2015
Bromoform	ΑE	Applied	EPA TO-17	GC/MS, Sorbent Tubes	AE04.04950	No	NJ	4/16/2015
Bromomethane	ΑE	Applied	EPA TO-17	GC/MS, Sorbent Tubes	AE04.04960	No	NJ	4/16/2015
Butadiene (1,3-)	ΑE	Applied	EPA TO-17	GC/MS, Sorbent Tubes	AE04.04970	No	NJ	4/16/2015
Carbon disulfide	ΑE	Applied	EPA TO-17	GC/MS, Sorbent Tubes	AE04.05050	No	NJ	4/16/2015
Carbon tetrachioride	AE	Applied	EPA TO-17	GCMS, Sorbent Tubes	AE04.05060	No	NJ	4/16/2015
Chlorobenzene	AE	Applied	EPA TO-17	GC/MS. Sorbent Tubes	AE04.05070	No	NJ	4/16/2015
Chioroethane	ΑE	Applied	EPA TO-17	GC/MS, Sorbent Tubes	AE04.05080	No	NJ	4/16/2015
Chioroform	AE	Applied	EPA TO-17	GC/MS, Sorbent Tubes	AE04.05090	No	NJ	4/16/2015
Chioromethane	AE	Applied	EPA TO-17	GCMS, Sorbent Tubes	AE04.05100	No	NJ	4/16/2015
Chlorotoluene (2-)	AE	Applied	EPA TO-17	GCMS, Sorbent Tubes	AE04.05110	No	NJ	4/16/2015
Cyclohexane	AE	Applied	EPA TO-17	GC/MS. Sorbent Tubes	AE04.05120	No	NJ	4/16/2015
	AE		EPA TO-17	GC/MS. Sorbent Tubes	AE04.05150	No	NJ	
Dibromochioromethane Dibromoethane (1,2-) (EDB)	AE	Applied Applied	EPA TO-17	GC/MS, Sorbent Tubes	AE04.05150 AE04.05160	No	NJ	4/16/2015 4/16/2015
Dichlorobenzene (1,2-)	AE	Applied	EPA TO-17	GC/MS, Sorbent Tubes	AE04.05170	No	NJ	4/16/2015
Dichlorobenzene (1,2-)	AE	Applied	EPA TO-17	GCMS, Sorbent Tubes	AE04.05180	No	NJ	4/16/2015
Dichlorobenzene (1,4-)	AE	Applied	EPA TO-17	GCMS, Sorbent Tubes	AE04.05180	No	NJ	4/16/2015
Dichlorodifluoromethane	AE	Applied	EPA TO-17	GCMS, Sorbent Tubes	AE04.05200	No	NJ	4/16/2015
Dichloroethane (1,1-)	AE	Applied	EPA TO-17	GCMS, Sorbent Tubes	AE04.05200 AE04.05210	No	NJ	4/16/2015
Dichioroethane (1,1-)	AE	Applied	EPA TO-17	GCMS, Sorbent Tubes	AE04.05210 AE04.05220	No No	NJ NJ	4/16/2015
Dichioroethane (1,2-)	AE		EPA TO-17	GCMS, Sorbent Tubes GCMS, Sorbent Tubes	AE04.05220 AE04.05230		NJ	4/16/2015
	AE	Applied	EPA T0-17	GCMS, Sorbent Tubes GCMS, Sorbent Tubes		No No		
Dichloroethene (cis-1,2-)	AE AE	Applied		GCMS, Sorbent Tubes GCMS. Sorbent Tubes	AE04.05240 AE04.05250	No No	NJ NJ	4/16/2015
Dichioroethene (trans-1,2-)	AE	Applied	EPA TO-17	GCMS, Sorbent Tubes	AE04.05250	No No	NJ	4/16/2015
Dichioropropane (1,2-)	AE	Applied	EPA TO-17	GCMS, Sorbent Tubes GCMS. Sorbent Tubes	AE04.05260	No No	NJ	4/16/2015
Dichioropropene (cls-1,3-)	AE	Applied	EPA TO-17	GCMS, Sorbent Tubes GCMS. Sorbent Tubes	AE04.05270	No No	NJ	4/16/2015
Dichioropropene (trans-1,3-)		Applied	EPA TO-17		AE04.05280 AE04.05290		NJ	4/16/2015
Dichiorotetrafluoroethane (1,2-)	AE.	Applied	EPA TO-17	GCMS, Sorbent Tubes		No No	NJ	4/16/2015
Dioxane (1,4-)	AE AE		EPA TO-17 EPA TO-17	GC/MS, Sorbent Tubes			NJ	4/16/2015
Ethanol	ΑE			GC/MS, Sorbent Tubes	AE04.05320		NJ	4/16/2015
Ethyl acetate	ΑE	Applied	EPA TO-17	GC/MS, Sorbent Tubes	AE04.05350	No	NJ	4/16/2015
Ethylbenzene	ΑE	Applied	EPA TO-17	GC/MS, Sorbent Tubes	AE04.05370	No	NJ	4/16/2015
Ethylbenzene (1-methyl-4-)	AE	Applied	EPA TO-17	GCMS, Sorbent Tubes	AE04.05400	No	NJ	4/16/2015
[Ethyltoluene (4-)]		Applied	EPA TO-17	GC/MS, Sorbent Tubes	AE04.05440	No	NJ	4/16/2015
Heptane (n-)	ΑE		EPA TO-17	GCMS, Sorbent Tubes	AE04.05450	No	NJ	4/16/2015
Heptane (n-) Hexachlorobutadiene (1,3-)	ΑE	Applied		COALC Control Tuber	AE04.05460	No	NJ	4/16/2015
Heptane (n-) Hexachlorobutadiene (1,3-) Hexane (n-)	AE AE	Applied	EPA TO-17	GC/MS, Sorbent Tubes				
Heptane (n-) Hexachlorobutadiene (1,3-) Hexane (n-) Hexanone (2-)	AE AE AE	Applied Applied	EPA TO-17	GC/MS, Sorbent Tubes	AE04.05470	No	NJ	
Heptane (n-) Hexachiorobutadiene (1,3-) Hexane (n-) Hexanone (2-) Isopropanol	AE AE AE	Applied Applied Applied	EPA TO-17 EPA TO-17	GCMS, Sorbent Tubes GCMS, Sorbent Tubes	AE04.05470 AE04.05520	No No	NJ NJ	
Heptane (n-) Hexachiorobutadiene (1,3-) Hexane (n-) Hexanone (2-) Isopropanol Isopropoyibenzene	AE AE AE AE	Applied Applied Applied Applied	EPA TO-17 EPA TO-17 EPA TO-17	GCMS, Sorbent Tubes GCMS, Sorbent Tubes GCMS, Sorbent Tubes	AE04.05470 AE04.05520 AE04.05540	No No No	NJ NJ NJ	4/16/2015 4/16/2015
Heptane (n-) Hexachiorobutadiene (1,3-) Hexane (n-) Hexane (2-) Isopropjanol Isopropylbenzene Methyl ethyl ketone (MEK)	AE AE AE AE AE	Applied Applied Applied	EPA TO-17 EPA TO-17 EPA TO-17 EPA TO-17	GCMS, Sorbent Tubes	AE04.05470 AE04.05520 AE04.05540 AE04.05610	No No No	NJ NJ NJ NJ	4/16/2015 4/16/2015 4/16/2015
Heptane (n-) Hexachlorobutadlene (1,3-) Hexane (n-) Hexanene (2-) Isopropanol Isopropylbenzene Methyl ethyl ketone (MEK) Methyl ethyl ketone	AE AE AE AE	Applied Applied Applied Applied	EPA TO-17 EPA TO-17 EPA TO-17	GCMS, Sorbent Tubes GCMS, Sorbent Tubes GCMS, Sorbent Tubes	AE04.05470 AE04.05520 AE04.05540	No No No	NJ NJ NJ	4/16/2015 4/16/2015
Heptane (n-) Hexachiorobutadiene (1,3-) Hexane (n-) Hexane (2-) Isopropjanol Isopropylbenzene Methyl ethyl ketone (MEK)	AE AE AE AE AE AE	Applied Applied Applied Applied Applied Applied	EPA TO-17 EPA TO-17 EPA TO-17 EPA TO-17 EPA TO-17	GCMMS, Sorbent Tubes	AE04.05470 AE04.05520 AE04.05540 AE04.05610 AE04.05640	No No No No No	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4/16/2015 4/16/2015 4/16/2015 4/16/2015
Heptane (n-) Hexachlorobutadlene (1,3-) Hexane (n-) Hexanene (2-) Isopropanol Isopropylbenzene Methyl ethyl ketone (MEK) Methyl ethyl ketone	AE AE AE AE AE	Applied Applied Applied Applied Applied	EPA TO-17	GCMS, Sorbent Tubes	AE04.05470 AE04.05520 AE04.05540 AE04.05610 AE04.05640 AE04.05660	No No No	NJ NJ NJ NJ	4/16/2015 4/16/2015 4/16/2015 4/16/2015 4/16/2015
Heptane (h-) Hexanchiorobusadiene (1,3-) Hexanchiorobusadiene (1,3-) Hexanchiorobusadiene (1,3-) Hexanchiorobusadiene (1,3-) Hexanchiorobusadiene (1,3-) Hexanchiorobusadiene (MEK) Methyl terbusadiene (MEK) Methyl terbusadiene (MEK) Methyl terbusadiene (MEK)	AE AE AE AE AE AE AE	Applied Applied Applied Applied Applied Applied	EPA TO-17 EPA TO-17 EPA TO-17 EPA TO-17 EPA TO-17	GCMIS, Sorbent Tubes	AE04.05470 AE04.05520 AE04.05540 AE04.05610 AE04.05640	No No No No No	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4/16/2015 4/16/2015 4/16/2015 4/16/2015
Heptane (In-) Hexachiorobutadiene (1,3-) Hexane (In-) Hexanene (2-) Hexanene (2-) Hexanene (3-) Hopproparol Isopropylbenzene Methyl ethyl techne (MEK) Methyl ethyl techne (MEK) Methyl etholoride (Dichloromethane)	AE AE AE AE AE AE AE	Applied Applied Applied Applied Applied Applied Applied Applied Applied	EPA TO-17	GCMS, Sorbent Tubes	AE04.05470 AE04.05520 AE04.05540 AE04.05610 AE04.05640 AE04.05660	No No No No No No	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4/16/2015 4/16/2015 4/16/2015 4/16/2015 4/16/2015
Heptane (h-) Hexanchiorobutadiene (1,3-) Hexanchiorobutadiene (1,3-) Hexanone (2-) Hexanone (2-) Hopropariol Hopropylberizene Methyl ethyl ketone (MEK) Methyl lethouly ether Methylene chloride (Dichloromethane) Methyliniadiene (1-)	AE AE AE AE AE AE AE	Applied	EPA TO-17	GCMIS, Sorbent Tubes	AE04.05470 AE04.05520 AE04.05540 AE04.05610 AE04.05640 AE04.05660 AE04.05670	No No No No No No	NJ NJ NJ NJ NJ NJ	4/16/2015 4/16/2015 4/16/2015 4/16/2015 4/16/2015 4/16/2015



Nonane (-n)	ΑE	Applied	EPA TO-17	GCMS, Sorbent Tubes	AE04.05720	No	NJ	4/16/2015
Pentane (-n)	AE	Applied	EPA TO-17	GC/MS, Sorbent Tubes	AE04.05820	No	NJ	4/16/2015
Propylene	ΑE	Applied	EPA TO-17	GC/MS, Sorbent Tubes	AE04.05890	No	NJ	4/16/2015
Styrene	ΑE	Applied	EPA TO-17	GC/MS, Sorbent Tubes	AE04.05920	No	NJ	4/16/2015
Tetrachioroethane (1,1,2,2-)	AE	Applied	EPA T0-17	GCMS, Sorbent Tubes	AE04.05940	No	NJ	4/16/2015
Tetrachioroethene Toluene	AE AE	Applied	EPA TO-17	GCMS, Sorbent Tubes GCMS, Sorbent Tubes	AE04.05950 AE04.05960	No No	NJ	4/16/2015
Trichloro (1.1.2-) trifluoroethane	-	Applied	EPA TO-17				NJ	4/16/2015
(1,2,2-)	ΑE	Applied	EPA TO-17	GC/MS, Sorbent Tubes	AE04.05970	No	NJ	4/16/2015
Trichlorobenzene (1,2,4-)	AE	Applied	EPA TO-17	GC/MS, Sorbent Tubes	AE04.05980	No	NJ	4/16/2015
Trichloroethane (1,1,1-)	ΑE	Applied	EPA TO-17	GC/MS, Sorbent Tubes	AE04.05990	No	NJ	4/16/2015
Trichloroethane (1,1,2-)	ΑE	Applied	EPA TO-17	GC/M8, Sorbent Tubes	AE04.06000	No	NJ	4/16/2015
Trichloroethene	AE	Applied	EPA TO-17	GC/MS, Sorbent Tubes	AE04.06010	No	NJ	4/16/2015
Trichlorofluoromethane	AE	Applied	EPA TO-17	GCMS, Sorbent Tubes	AE04.06020	No	NJ	4/16/2015 4/16/2015
Trimethylbenzene (1,2,4-) Trimethylbenzene (1,3,5-)	AE AE	Applied	EPA TO-17 EPA TO-17	GCMS, Sorbent Tubes GCMS, Sorbent Tubes	AE04.06030 AE04.06032	No No	NJ NJ	3/5/2005
Trimethylpentane (2,2,4-)	AE	Applied Applied	EPA TO-17	GCMS, Sorbent Tubes	AE04.06040	No	NJ	4/16/2015
Vinyi bromide	ΑE	Applied	EPA TO-17	GC/MS, Sorbent Tubes	AE04.06060	No	NJ	4/16/2015
Vinyl chloride	ΑE	Applied	EPA TO-17	GC/MS, Sorbent Tubes	AE04.06070	No	NJ	4/16/2015
Xylene (m- + p-)	ΑE	Applied	EPA TO-17	GC/M8, Sorbent Tubes	AE04.06080	No	NJ	4/16/2015
Xylene (o-)	AE	Applied	EPA TO-17	GC/MS, Sorbent Tubes	AE04.06090	No	NJ	4/16/2015
Xylenes (total)	AE	Applied	EPA TO-17	GCMS, Sorbent Tubes	AE04.06100	No	NJ	4/16/2015
Benzene	AE AE	Certified Certified	EPA TO-3 EPA TO-3	GC, FID and/or ECD, Cryogenic GC, FID and/or ECD, Cryogenic	AE04.06220 AE04.06260	Yes	NJ NJ	2/15/2007
Ethylbenzene Isopropylbenzene	AE	Certified	EPA TO-3	GC, FID and/or ECD, Cryogenic	AE04.06260	Yes	NJ	2/15/2007
Methane	AE	Certified	EPA TO-3	GC, FID and/or ECD, Cryogenic	AE04.06280	Yes	NJ	2/15/2007
Methyl tert-butyl ether	AE	Certified	EPA TO-3	GC, FID and/or ECD, Cryogenic	AE04.06290	Yes	NJ	2/15/2007
Tert-butyl alcohol	ΑE	Certified	EPA TO-3	GC, FID and/or ECD, Cryogenic	AE04.06300	Yes	NJ	2/15/2007
Toluene	ΑE	Certified	EPA TO-3	GC, FID and/or ECD, Cryogenic	AE04.06320	Yes	NJ	2/15/2007
Xylenes (total)	ΑE	Certified	EPA TO-3	GC, FID and/or ECD, Cryogenic	AE04.06350	Yes	NJ	2/15/2007
Heterotrophic bacteria	DW	Certified	SM 9215 B	Pour Plate	DW01.00070	Yes	NJ	7/1/2004
Total colform / E. coll	DW	Certified	SM 9223 B	ONPG-MUG (Autoanalysis Collect	DW01.00100	Yes Yes	NJ	8/13/2003
Alkalinity Ammonia	DW	Certified	SM 2320 B SM 4500 NH3 H	Automated Phenate	DW03.00010 DW03.00070	Yes	NJ NJ	7/1/2002 7/1/2002
Chloride	DW	Certified	EPA 300.0	Ion Chromatography	DW03.00420	Yes	NJ	7/1/2002
Color	DW	Certified	SM 2120 B	Platinum-Cobalt	DW03.00550	Yes	NJ	7/1/2002
Conductivity	DW	Certified	SM 2510 B	Conductance	DW03.00590	Yes	NJ	7/1/2002
Cyanide	DW	Certified	EPA 335.4	Spectrophotometric, Distill, Semi	DW03.00720	Yes	NJ	7/1/2002
Dissolved organic carbon (DOC)	DW	Certified	SM 5310 B	High Temp. Combustion, Filtration	DW03.00760	Yes	NJ	7/1/2002
Fluoride	DW	Certified	EPA 300.0	Ion Chromatography	DW03.00860	Yes	NJ	10/31/2011
Foaming agents	DW	Certified	SM 5540 C	Methylene Blue	DW03.00910	Yes	NJ	7/1/2002
Nitrate Nitrite	DW	Certified	EPA 353.2 SM 4500-NO2 B	Automated Cadmium Reduction	DW03.00940 DW03.01300	Yes	NJ NJ	7/1/2002 7/1/2002
Odor	DW	Certified	SM 2150 B	Spectrophotometric Consistent Series	DW03.01300	Yes	NJ	7/1/2002
Orthophosphate	DW	Certified	SM 4500-P E	Colorimetric	DW03.01360	Yes	NJ	11/17/2017
Perchiorate	DW	Certified	EPA 314.0	Ion Chromatography	DW03.01480	Yes	NJ	6/2/2004
Residue - nonfiterable (TSS)	DW	Applied	SM 2540 D	Gravimetric, 103-105 Deg C, Post	DW03.01520	No	NJ	7/1/2017
Sulfate	DW	Certified	EPA 300.0	Ion Chromatography	DW03.01600	Yes	NJ	7/1/2002
Total dissolved solids (TDS)	DW	Certified	SM 2540 C	Gravimetric At 180	DW03.01660	Yes	NJ	7/1/2002
Total hardness Total assault carbon (TOC)	DW	Certified Certified	SM 2340 C SM 5310 B	Titrimetric, EDTA	DW03.01690 DW03.01710	Yes	NJ NJ	7/1/2004 7/1/2002
Total organic carbon (TOC) Turbidity	DW	Certified	EPA 180.1	High Temp. Combustion Nephelometric	DW03.01710	Yes Yes	NJ	7/1/2002
Chlorine - residual	DW	Certified	SM 4500-CI F	DPD, Ferrous Titrimetric	DW04.00020	Yes	NJ	7/1/2002
pH	DW	Certified	SM 4500-H B	Electrometric	DW04.00150	Yes	NJ	7/1/2002
Temperature	DW	Certified	SM 2550 B	Thermometric	DW04.00170	Yes	NJ	7/1/2002
Chromium (VI)	DW	Certified	EPA 218.7	Ion Chromatography	DW06.00242	Yes	NJ	1/18/2017
Mercury	DW	Certified	EPA 245.1	Manual Cold Vapor	DW06.00480	Yes	NJ	7/1/2002
Silica	DW	Certified	SM 4500-SI D (18/19th Ed.)	Molybdosilicate	DW06.00600	Yes	NJ	7/1/2004
Aluminum	DW	Certified	EPA 200.7	ICP ICPIMS	DW07.00001	Yes Yes	NJ	7/1/2002
Antimony	DW	Certified Certified	EPA 200.8 EPA 200.8	ICP/MS	DW07.00020 DW07.00050	Yes	NJ NJ	5/16/2003 5/16/2003
Arsenic	DW	Certified	EPA 200.8	ICP/MS	DW07.00070	Yes	NJ	5/16/2003
Barium	DW	Certified	EPA 200.7	ICP	DW07.00080	Yes	NJ	7/1/2002
Barlum	DW	Certified	EPA 200.8	ICP/MS	DW07.00110	Yes	NJ	5/16/2003
Beryllum	DW	Certified	EPA 200.7	ICP	DW07.00120	Yes	NJ	7/1/2002
Beryllum	DW	Certified	EPA 200.8	ICP/MS	DW07.00150	Yes	NJ	5/16/2003
Boron	DW	Certified	EPA 200.7	ICP	DW07.00160	Yes	NJ	9/8/2016
Cadmium	DW	Certified	EPA 200.7	ICP ICP/MS	DW07.00170	Yes	NJ NJ	7/1/2002
Cadmium Calcium	DW	Certified Certified	EPA 200.8 EPA 200.7	ICP/MS	DW07.00190 DW07.00200	Yes	NJ NJ	5/16/2003 7/1/2002
Calcium-hardness	DW	Certified	EPA 200.7	Ca as Carbonate	DW07.00230	Yes	NJ	7/1/2002
Chromium	DW	Certified	EPA 200.7	ICP	DW07.00240	Yes	NJ	7/1/2002
Chromium	DW	Certified	EPA 200.8	ICP/MS	DW07.00270	Yes	NJ	5/16/2003
Cobalt	DW		EPA 200.7	ICP	DW07.00280	Yes	NJ	9/8/2016
Cobalt	DW		EPA 200.8	ICP/MS	DW07.00290	Yes	NJ	9/8/2016
Copper	DW	Certified	EPA 200.7	ICP ICPA40	DW07.00300	Yes	NJ	7/1/2002
Copper	DW	Certified Certified	EPA 200.8 EPA 200.7	ICP/MS	DW07.00330 DW07.00340	Yes Yes	NJ NJ	5/16/2003 7/1/2002
Lead	DW	Certified	EPA 200.8	ICP/MS	DW07.00340	Yes	NJ	5/16/2003
Magnesium	DW	Certified	EPA 200.7	ICP	DW07.00400	Yes	NJ	7/1/2002
Manganese	DW	Certified	EPA 200.7	ICP	DW07.00430	Yes	NJ	7/1/2002
Manganese	DW	Certified	EPA 200.8	ICP/MS	DW07.00460	Yes	NJ	6/16/2003
Molybdenum	DW	Certified	EPA 200.7	ICP	DW07.00480	Yes	NJ	9/8/2016
Molybdenum	DW	Certified	EPA 200.8	ICP/MS	DW07.00490	Yes	NJ	9/8/2016
Nickel	DW	Certified	EPA 200.7	ICP ICPANO	DW07.00500	Yes	NJ	7/1/2002
Nickel Potassium	DW	Certified Certified	EPA 200.8 EPA 200.7	ICP/MS	DW07.00530 DW07.00540	Yes Yes	NJ NJ	5/16/2003 9/8/2016
Selenium	DW	Certified	EPA 200.7 EPA 200.8	ICP/MS	DW07.00540	Yes	NJ NJ	5/16/2003
Silica	DW	Certified	EPA 200.7	ICP	DW07.00570	Yes	NJ	7/1/2002
				ICP	DW07.00600	Yes	NJ	7/1/2002
Silver	DW	Certified	EPA 200.7	ICP	DWWW7.00600	165		
	DW	Certified	EPA 200.7	ICP/MS	DW07.00630	Yes	NJ	5/16/2003
Silver		Certified Certified						



Thaillum	DW	Certified	EPA 200.8	ICP/MS	DW07.00670	Yes	NJ	5/23/2003
Tin	DW	Certified	EPA 200.7	ICP	DW07.00680	Yes	NJ	9/8/2016
Titanium	DW	Certified	EPA 200.7	ICP	DW07.00690	Yes	NJ	9/8/2016
Total hardness	DW	Applied	EPA 200.7	Hardness By Calculation	DW07.00700	No	NJ	8/15/2017
Vanadium	DW	Certified	EPA 200.7	ICP	DW07.00750	Yes	NJ	9/8/2016
Vanadium	DW	Certified	EPA 200.8	ICP/MS	DW07.00760	Yes	NJ	9/8/2016
Zinc Zinc	DW	Certified Certified	EPA 200.7 EPA 200.8	ICP/MS	DW07.00770 DW07.00800	Yes	NJ NJ	7/1/2002 5/16/2003
Dibromo-3-chioropropane (1,2-)	DW	Certified	EPA 504.1	Solvent Extract, GC	DW07.00800	Yes	NJ	8/13/2003
Dibromoethane (1,2-) (EDB)	DW	Certified	EPA SOL 1	Solvent Extract, GC	DW08.00710	Yes	NJ	8/13/2003
Trichloropropane (1,2,3-)	DW	Certified	EPA 504.1	Solvent Extract, GC	DW08.00720	Yes	NJ	8/13/2003
Dioxane (1,4-)	DW	Applied	EPA 522	SPE, GC/MS/SIM, isotope Dilution	DW09.02260	No	NJ	7/1/2017
Acetone	DW	Certified	EPA 524.2	GCMS, P & T or Direct Injection,	DW09.02270	Yes	NJ	7/1/2002
Acrylonitrile	DW	Certified	EPA 524.2	GCMS, P & T or Direct Injection,	DW09.02280	Yes	NJ	7/1/2002
Allyl chloride	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection.	DW09.02290	Yes	NJ	7/1/2002
Benzene	DW	Certified	EPA 524.2	GCMS, P & T or Direct Injection,	DW09.02300	Yes	NJ	7/1/2002
Bromobenzene	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection,	DW09.02310	Yes	NJ	7/1/2002
Bromochloromethane	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection,	DW09.02320	Yes	NJ	7/1/2002
Bromodichioromethane	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection,	DW09.02330	Yes	NJ	7/1/2002
Bromoform	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection,	DW09.02340	Yes	NJ	7/1/2002
Bromomethane	DW	Certified	EPA 524.2	GCMS, P & T or Direct Injection,	DW09.02350	Yes	NJ	7/1/2002
helesal.	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection,	DW09.02360	Yes	NJ	7/1/2002
Butylbenzene (n-)	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection,	DW09.02370	Yes	NJ	7/1/2002
Carbon disulfide	DW	Certified	EPA 524.2	GCMS, P & T or Direct Injection,	DW09.02380	Yes	NJ	7/1/2002
Carbon tetrachloride	DW	Certified	EPA 524.2	GCMS, P & T or Direct Injection,	DW09.02390	Yes	NJ	7/1/2002
Chioroacetonitrile	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection,	DW09.02400	Yes	NJ	7/1/2002
Chlorobenzene	DW	Certified	EPA 524.2	GCMS, P & T or Direct Injection,	DW09.02410	Yes	NJ	7/1/2002
Chiorobutane (1-)	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection,	DW09.02420	Yes	NJ	7/1/2002
Chloroform	DW	Certified	EPA 524.2	GCMS, P & T or Direct Injection,	DW09.02430	Yes	NJ NJ	7/1/2002
Chloroform Chloromethane	DW	Certified Certified	EPA 524.2 EPA 524.2	GC/MS, P & T or Direct Injection, GC/MS, P & T or Direct Injection,	DW09.02440 DW09.02450	Yes	NJ NJ	7/1/2002 7/1/2002
	DW	Certified	EPA 524.2	GCMS, P & T or Direct Injection,	DW09.02450	Yes	NJ NJ	7/1/2002
Chiorotoluene (2-) Chiorotoluene (4-)	DW	Certified	EPA 524.2	GCMS, P & T or Direct Injection,	DW09.02460 DW09.02470	Yes	NJ	7/1/2002
Dibromo-3-chioropropane (1,2-)	DW	Certified	EPA 524.2	GCMS, P & T or Direct Injection,	DW09.02470	Yes	NJ	8/13/2003
Dibromochioromethane	DW	Certified	EPA 524.2	GCMS, P & T or Direct Injection,	DW09.02490	Yes	NJ	7/1/2002
Dibromoethane (1,2-) (EDB)	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection,	DW09.02500	Yes	NJ	7/1/2002
Dibromomethane	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection,	DW09.02510	Yes	NJ	7/1/2002
Dichloro-2-butene (trans-1,4-)	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection.	DW09.02520	Yes	NJ	7/1/2002
Dichlorobenzene (1,2-)	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection,	DW09.02530	Yes	NJ	7/1/2002
Dichlorobenzene (1,3-)	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection,	DW09.02540	Yes	NJ	7/1/2002
Dichlorobenzene (1,4-)	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection,	DW09.02550	Yes	NJ	7/1/2002
Dichlorodifluoromethane	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection,	DW09.02560	Yes	NJ	7/1/2002
Dichloroethane (1,1-)	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection,	DW09.02570	Yes	NJ	7/1/2002
Dichloroethane (1,2-)	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection,	DW09.02580	Yes	NJ	7/1/2002
Dichioroethene (1,1-)	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection,	DW09.02590	Yes	NJ	7/1/2002
Dichloroethene (cis-1,2-)	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection,	DW09.02600	Yes	NJ	7/1/2002
Dichloroethene (trans-1,2-)	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection,	DW09.02610	Yes	NJ	7/1/2002
Dichioropropane (1,2-)	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection,	DW09.02620	Yes	NJ	7/1/2002
Dichioropropane (1,3-)	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection,	DW09.02630	Yes	NJ	7/1/2002
Dichioropropane (2,2-)	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection,	DW09.02640	Yes	NJ	7/1/2002
Dichioropropanone (1,1-)	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection,	DW09.02650	Yes	NJ	7/1/2002
Dichioropropene (1,1-)	DW	Certified	EPA 524.2	GCMS, P & T or Direct Injection,	DW09.02660	Yes	NJ	7/1/2002
Dichioropropene (cis-1,3-)	DW	Certified	EPA 524.2	GCMS, P & T or Direct Injection,	DW09.02670	Yes	NJ	7/1/2002
Dichioropropene (trans-1,3-)	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection,	DW09.02680	Yes	NJ	7/1/2002
Diethyl ether (Ethyl ether)	DW	Certified	EPA 524.2	GCMS, P & T or Direct Injection,	DW09.02690	Yes	NJ	7/1/2002
Ethyl methacrylate	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection, GC/MS, P & T or Direct Injection,	DW09.02700	Yes	NJ	7/1/2002
Ethylbenzene	DW	Certified Certified	EPA 524.2 EPA 524.2	GCMS, P & T or Direct Injection,	DW09.02710	Yes	NJ NJ	7/1/2002 7/1/2002
Hexachiorobutadiene (1,3-) Hexachioroethane	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection,	DW09.02720 DW09.02730	Yes	NJ	7/1/2002
Hexane (n-)	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection,	DW09.02740	Yes	NJ	1/18/2017
Hexanone (2-)	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection,	DW09.02750	Yes	NJ	7/1/2002
Isopropylbenzene	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection,	DW09.02760	Yes	NJ	7/1/2002
Isopropyltoluene (4-)	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection,	DW09.02770	Yes	NJ	7/1/2002
Methacryionitrile	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection,	DW09.02780	Yes	NJ	7/1/2002
Methyl acrylate	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection,	DW09.02790	Yes	NJ	7/1/2002
Methyl lodide	DW	Certified	EPA 524.2	GCMS, P & T or Direct Injection,	DW09.02800	Yes	NJ	7/1/2002
Methyl methacrylate	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection,	DW09.02810	Yes	NJ	7/1/2002
Methyl tert-butyl ether	DW	Certified	EPA 524.2	GCMS, P & T or Direct Injection,	DW09.02820	Yes	NJ	7/1/2002
Methylene chloride	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection,	DW09.02830	Yes	NJ	7/1/2002
(Dichloromethane)				Capillary				
Naphthalene	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection,	DW09.02840	Yes	NJ	7/1/2002
Nitrobenzene	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection,	DW09.02850	Yes	NJ	7/1/2002
Nitropropane (2-)	DW	Certified	EPA 524.2	GCMS, P & T or Direct Injection,	DW09.02860	Yes	NJ	7/1/2002
Pentachioroethane	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection,	DW09.02870	Yes	NJ	7/1/2002
Pentanone (4-methyl-2-) (MIBK)	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection,	DW09.02880	Yes	NJ	7/1/2002
Propionitrie	DW	Certified	EPA 524.2	GCMS, P & T or Direct Injection,	DW09.02890	Yes	NJ	7/1/2002
	DW	Certified	EPA 524.2 EPA 524.2	GCMS, P & T or Direct Injection,	DW09.02900	Yes	NJ	7/1/2002
Propylbenzene (n-)				GC/MS, P & T or Direct Injection,	DW09.02910	Yes	NJ	7/1/2002
Sec-buty/benzene	DW	Certified			DUMBO CREEK	Man		
Sec-buty/benzene Styrene	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection,	DW09.02920	Yes	NJ	7/1/2002
Sec-butylbenzene Styrene Tert-butyl alcohol	DW DW	Certified Certified	EPA 524.2 EPA 524.2	GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	DW09.02930	Yes	NJ	7/1/2002
Sec-butylbenzene Styrene Tert-butyl alcohol Tert-butylbenzene	DW DW DW	Certified Certified Certified	EPA 524.2 EPA 524.2 EPA 524.2	GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	DW09.02930 DW09.02940	Yes Yes	NJ NJ	7/1/2002 7/1/2002
Sec-butylbenzene Styrene Tert-butyl alcohol Tert-butylbenzene Tetrachloroethane (1,1,1,2-)	DW DW DW DW	Certified Certified Certified Certified	EPA 524.2 EPA 524.2 EPA 524.2 EPA 524.2	GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	DW09.02930 DW09.02940 DW09.02950	Yes Yes Yes	NJ NJ NJ	7/1/2002 7/1/2002 7/1/2002
Sec-butylbenzene Styrene Tert-butyl alcohol Tert-butyl benzene Tetrachioroethane (1,1,1,2-) Tetrachioroethane (1,1,2,2-)	DW DW DW DW DW	Certified Certified Certified Certified Certified	EPA 524.2 EPA 524.2 EPA 524.2 EPA 524.2 EPA 524.2	GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	DW09.02930 DW09.02940 DW09.02960 DW09.02960	Yes Yes Yes Yes	NJ NJ NJ	7/1/2002 7/1/2002 7/1/2002 7/1/2002
Sec-butylbenzene Styrene Tert-butyl alcohol Tert-butylbenzene Tetrachioroethane (1,1,1,2-) Tetrachioroethane (1,1,2,2-) Tetrachioroethene	DW DW DW DW DW DW	Certified Certified Certified Certified Certified Certified	EPA 524.2 EPA 524.2 EPA 524.2 EPA 524.2 EPA 524.2 EPA 524.2	GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	DW09.02930 DW09.02940 DW09.02950 DW09.02960 DW09.02970	Yes Yes Yes Yes Yes	N3 N3 N3 N3 N3	7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002
Sec-butylbenzene Styrene Tert-butyl alcohol Tert-butylbenzene Tetrachioroethane (1,1,1,2-) Tetrachioroethane (1,1,2,2-) Tetrachioroethane Tetrahydrofuran	DW DW DW DW DW	Certified Certified Certified Certified Certified Certified Certified	EPA 524.2 EPA 534.2 EPA 534.2 EPA 524.2 EPA 524.2 EPA 524.2 EPA 524.2 EPA 524.2	GCMS, P & T or Direct Injection,	DW09.02930 DW09.02940 DW09.02960 DW09.02960 DW09.02970 DW09.02980	Yes Yes Yes Yes Yes Yes	22 22 23 23 23 23 23 23 23 23 23 24 24 24 24 24 24 24 24 24 24 24 24 24	7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002
Sec-butylibenzene Skyrene Skyrene Tert-butyl sicohol Tert-butylibenzene Tetrachioroethane (1,1,2-) Tetrachioroethane (1,1,2-) Tetrachioroethane Tetrahyldrofuran Toluene	DW DW DW DW DW DW DW DW	Certified Certified Certified Certified Certified Certified Certified Certified	EPA 524.2 EPA 524.2 EPA 524.2 EPA 524.2 EPA 524.2 EPA 524.2	GCMS, P & T or Direct Injection,	DW09.02930 DW09.02940 DW09.02960 DW09.02960 DW09.02970 DW09.02980 DW09.02990	Yes Yes Yes Yes Yes Yes	22 22 22 22 22 22 22 22 22 22 22 22 22	7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002
Sec-buylibrazene Styrene Tert-buyl sicohol Tert-buyl sicohol Tert-buylibrazene Tertachiorerthane (1,1,2,2) Tetrachiorerthane (1,1,2,2) Tetrachiorerthane Tetrachiorerthane Tetrachiorerthane Tetrachiorerthane Toluene	DW DW DW DW DW DW DW DW DW	Certified Certified Certified Certified Certified Certified Certified Certified Certified	EFA 524.2 EFA 504.2 EFA 504.2 EFA 504.2 EFA 504.2 EFA 504.2 EFA 504.2 EFA 504.2 EFA 504.2 EFA 504.2	GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	DW09.02930 DW09.02940 DW09.02950 DW09.02960 DW09.02970 DW09.02980 DW09.02990 DW09.03000	Yes	N N N N N N N N N N N N N N N N N N N	7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002
Sec-buylibenzene Styrene Tert-buyl sicohol Tert-buyl sicohol Tert-buylibenzene Tertachioroethane (1,1,2,2-) Tetrachioroethane (1,1,2,2-) Tetrachioroethane Terbaylyofouran Toluene Trichiorobenzene (1,2,3-) Trichiorobenzene (1,2,4-)	DW DW DW DW DW DW DW DW	Certified Certified Certified Certified Certified Certified Certified Certified	EPA 534.2 EPA 534.2 EPA 534.2 EPA 534.2 EPA 534.2 EPA 534.2 EPA 534.2 EPA 534.2	GCMS, P & T or Direct Injection, SCMS, P & T or Direct Injection,	DW09.02930 DW09.02940 DW09.02950 DW09.02960 DW09.02960 DW09.02980 DW09.02990 DW09.03000 DW09.03010	Yes	22 22 22 22 22 22 22 22 22 22 22 22 22	7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002
Sec-buylibrazene Styrene Tert-buyl sicohol Tert-buyl sicohol Tert-buylibrazene Tertachiorerthane (1,1,2,2) Tetrachiorerthane (1,1,2,2) Tetrachiorerthane Tetrachiorerthane Tetrachiorerthane Tetrachiorerthane Toluene	DW DW DW DW DW DW DW DW DW DW	Certified Certified Certified Certified Certified Certified Certified Certified Certified Certified Certified	EFA 504.2 EFA 504.2 EFA 504.2 EFA 504.2 EFA 504.2 EFA 504.2 EFA 504.2 EFA 504.2 EFA 504.2 EFA 504.2	GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	DW09.02930 DW09.02940 DW09.02950 DW09.02960 DW09.02970 DW09.02980 DW09.02990 DW09.03000	Yes	NJ NJ NJ NJ NJ NJ NJ NJ NJ	7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002
Sec-butylibenzene Skyrene Skyrene Tert-butyl sicohol Tert-butyl sicohol Tert-butylibenzene Tetrachioroethane (1,1,2-) Tetrachioroethane Tetrachioroethane Tetrachioroethane Tetrachioroethane Trichiorobenzene (1,2,3-) Trichiorobenzene (1,2,4-) Trichioroethane (1,1,1-)	DW DW DW DW DW DW DW DW DW DW DW	Certified Certified Certified Certified Certified Certified Certified Certified Certified Certified Certified Certified Certified Certified	EFA 524.2 EFA 524.2	GCMS, P & T or Direct Injection,	DW09.02930 DW09.02940 DW09.02960 DW09.02960 DW09.02970 DW09.02980 DW09.02990 DW09.03000 DW09.03010 DW09.03010	Yes	NJ NJ NJ NJ NJ NJ NJ NJ NJ NJ NJ NJ	7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002
Sec-butylbenzene Styrene Tert-butyl sicohol Tert-butyl sicohol Tert-butyl sicohol Tert-butylbenzene Tertrachiorethane (1,1,2,2-) Tetrachiorethane (1,1,2,2-) Tetrachiorethane Tetrahydrothran Toluene Trichiorethane (1,2,2-) Trichiorethane (1,2,2-) Trichiorethane (1,1,2-) Trichiorethane (1,1,2-)	DW DW DW DW DW DW DW DW DW DW DW DW	Certified	EFA 524.2 EFA 504.2 EFA 504.2	GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, GGMS, P & T or Direct Injection, GGMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	DW09.02930 DW09.02940 DW09.02950 DW09.02960 DW09.02970 DW09.02980 DW09.03090 DW09.03010 DW09.03010 DW09.03040	Yes	N3 N3 N3 N3 N3 N3 N3 N3 N3 N3 N3 N3 N3 N	7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002



Trimethylbenzene (1,2,4-)	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection,	DW09.03080	Yes	NJ	7/1/2002
Trimethylbenzene (1,3,5-)	DW	Certified	EPA 524.2	GCMS, P & T or Direct Injection,	DW09.03090	Yes	NJ	7/1/2002
Vinyl chloride	DW	Certified	EPA 524.2	GC/MS, P & T or Direct Injection,	DW09.03100	Yes	NJ	7/1/2002
Xylenes (total)	DW	Certified	EPA 524.2	GCMS, P & T or Direct Injection,	DW09.03130	Yes	NJ	7/1/2002
Fecal coliform	NPW	Certified	SM 9222 D-97	Membrane Filter (MF), Single Step	NPW01.00300	Yes	NJ	7/1/2002
Heterotrophic plate count	NPW	Certified	SM 9215 B	Pour Plate	NPW01.00390	Yes	NJ	7/1/2002
Total colform	NPW	Certified	SM 9222 B-97	MF Single Step or Two Step	NPW01.00530	Yes	NJ	7/1/2002
Acidity as CaCO3	NPW	Certified	SM 2310 B-11	Electrometric or Phenoiphthalein	NPW03.00020	Yes	NJ	7/1/2002
Alkalinity as CaCO3	NPW	Certified	SM 2320 B-11	Electrometric or Color Titration	NPW03.00020	Yes	NJ	7/1/2002
Ammonia	NPW	Certified	SM 4500-NH3 B plus H-11	Distillation or Gas Diffusion, Semi-	NPW03.00270	Yes	NJ	7/1/2002
	NPW	Certified	SM 5210 B-11	Dissolved Oxygen Depletion - Membrane	NPW03.00350		NJ	7/1/2002
Biochemical oxygen demand						Yes		
Bromide	NPW	Certified	EPA 300.0	ion Chromatography	NPW03.00540	Yes	NJ	7/1/2002
Bromide	NPW	Certified	SW-846 9056	ion Chromatography	NPW03.00570	Yes	NJ	7/1/2002
Bromide	NPW	Certified	SW-846 9056A	Ion Chromatography	NPW03.00580	Yes	NJ	7/1/2002
Carbonaceous BOD (CBOD)	NPW	Certified	SM 5210 B-11	Diss. Oxygen Depl., Nitrif. Inhib	NPW03.00660	Yes	NJ	7/1/2002
Chemical oxygen demand	NPW	Certified	SM 5220 C-11	Titrimetric	NPW03.00750	Yes	NJ	8/13/2013
Chloride	NPW	Certified	SM 4500-CI C-11	Titrimetric, Mercuric Nitrate	NPW03.00970	Yes	NJ	7/1/2002
Chloride	NPW	Certified	EPA 300.0	ion Chromatography	NPW03.01100	Yes	NJ	7/1/2002
Chloride	NPW	Certified	SW-846 9056	ion Chromatography	NPW03.01150	Yes	NJ	7/1/2002
Chloride	NPW	Certified	SW-846 9056A	ion Chromatography	NPW03.01160	Yes	NJ	7/1/2002
Color	NPW	Certified	SM 2120 B-11	Colorimetric (Platinum-Cobalt)	NPW03.01370	Yes	NJ	7/1/2002
Cyanide	NPW	Certified	EPA 335.4	Distillation, Spectrophotometric (Auto)	NPW03.01530	Yes	NJ	7/1/2002
Cyanide	NPW	Certified	SW-846 9012B	Colorimetric, Automated	NPW03.01550	Yes	NJ	7/1/2002
Cyanide - amenable to Cl2	NPW	Certified	SM 4500-CN B-11 and G-11	Manual Distillation, Titrimetr/Spectro	NPW03.01660	Yes	NJ	7/1/2002
Cyanide - amenable to CI2	NPW	Certified	SM 4500-CN C-11 and G-11	Manual Distillation, Titrimetr/Spectro	NPW03.01670	Yes	NJ	7/1/2002
Dissolved organic carbon (DOC)	NPW	Certified	SM 5310 B	Filtration and Combustion	NPW03.01750	Yes	NJ	1/23/2012
Fluoride	NPW	Certified	EPA 300.0	ion Chromatography	NPW03.01930	Yes	NJ	7/1/2002
Fluoride	NPW	Certified	SW-846 9056	Ion Chromatography	NPW03.01970	Yes	NJ	7/1/2002
Fluoride	NPW	Certified	SW-846 9056A	Ion Chromatography	NPW03.01980	Yes	NJ	7/1/2002
Hardness - total as CaCO3	NPW	Certified	SM 2340 C-11	Titrimetric, EDTA	NPW03.02110	Yes	NJ	8/13/2003
Kjeldahi nitrogen - total	NPW	Certified	EPA 351.2	Digestion, Semiauto. Digestor,	NPW03.02470	Yes	NJ	7/1/2002
Nitrate - nitrite	NPW	Certified	EPA 353.2	Cadmium Reduction, Automated	NPW03.02790	Yes	NJ	7/1/2002
Nitrite	NPW	Certified	SM 4500-NO2 B-11	Spectrophotometric, Manual	NPW03.02960	Yes	NJ	7/1/2002
Oll & grease - hem-LL	NPW	Certified	EPA 1664A	Gravimetric, Hexane Extractable Material-	NPW03.03200	Yes	NJ	7/1/2002
Oll & grease - sgt-non polar	NPW	Certified	EPA 1664A	Gravimetric, Silica Gel Treated-Hem-LL	NPW03.03340	Yes	NJ	10/27/2003
			User Defined EPA 351.2-8M 4500				-	
Organic nitrogen	NPW	Certified	NH3 B plus G (20th ED)	Total Kjeldahi-N Minus Ammonia-N	NPW03.03400	Yes	NJ	7/1/2002
Orthophosphate	NPW	Certified	EPA 365.3	Ascorbic Acid, Manual Two Reagent	NPW03.03510	Yes	NJ	2/19/2013
Perchiorate	NPW	Certified	User Defined EPA 314.0	Ion Chromatography	NPW03.03710	No	NJ	10/6/2010
Phenois	NPW	Certified	EPA 420.4	Manual Distilation, Colorimetric Auto	NPW03.03810	Yes	NJ	7/1/2002
	NPW		EPA 365.3		NPW03.03860	Yes		7/1/2002
Phosphorus (total)		Certified Certified		Persuifate Digestion + Manual	NPW03.03060		NJ	
Residue - filterable (TDS)	NPW		SM 2540 C-11	Gravimetric, 180 Degrees C		Yes	NJ	10/10/2014
Residue - nonfiterable (TSS)	NPW	Certified	SM 2540 D-11	Gravimetric, 103-105 Degrees C, Post	NPW03.04050	Yes	NJ	7/1/2002
Residue - settleable	NPW	Certified	SM 2540 F-11	Volumetric (Imhoff Cone) or Gravimetric	NPW03.04080	Yes	NJ	7/1/2002
Residue - total	NPW	Certified	SM 2540 B-11	Gravimetric, 103-105 Degrees C	NPW03.04100	Yes	NJ	7/1/2002
Residue - volatile	NPW	Certified	EPA 160.4	Gravimetric, 550 Degrees C	NPW03.04130	Yes	NJ	7/1/2002
Salinity	NPW	Certified	SM 2520 B	Electrical Conductivity	NPW03.04170	Yes	NJ	7/1/2002
Specific conductance	NPW	Certified	SM 2510 B-11	Wheatstone Bridge	NPW03.04250	Yes	NJ	11/9/2017
Specific conductance	NPW	Certified	SW-846 9050A	Wheatstone Bridge	NPW03.04270	Yes	NJ	11/9/2017
Sulfate	NPW	Certified	EPA 300.0	Ion Chromatography	NPW03.04490	Yes	NJ	7/1/2002
Sulfate	NPW	Certified	SW-846 9056	ion Chromatography	NPW03.04540	Yes	NJ	7/1/2002
Sulfate	NPW	Certified	SW-846 9056A	Ion Chromatography	NPW03.04550	Yes	NJ	7/1/2002
Suffides	NPW	Certified	SM 4500-8 B, C plus F-11	Titrimetric, lodine	NPW03.04650	Yes	NJ	7/1/2002
Suffides, acid sol. & Insol.	NPW	Certified	SW-846 9034	Titration	NPW03.04700	Yes	NJ	7/1/2002
Surfactants	NPW	Certified	SM 5540 C-11	Colorimetric (Methylene Blue)	NPW03.04720	Yes	NJ	7/1/2002
Total organic carbon (TOC)	NPW	Certified	SM 5310 B-11	Combustion	NPW03.04790	Yes	NJ	7/1/2002
Total organic carbon (TOC)	NPW	Certified	SW-846 9060A	Infrared Spectrometry or FID	NPW03.04880	Yes	NJ	7/1/2002
Total organic halides (TOX)	NPW	Certified	SW-846 9020B	Combustion, Titration	NPW03.04930	Yes	NJ	7/1/2002
Total, fixed, and volatile solids						Maria .		
(SQAR)	NPW	Certified	SM 2540 G SM 18th Ed.	Gravimetric, 500 Degrees C	NPW03.04960	Yes	NJ	1/15/2009
Turbidity	NPW	Certified	EPA 180.1	Nephelometric	NPW03.05010	Yes	NJ	7/1/2002
Chlorine	NPW	Certified	SM 4500-CI F-11	DPD-FAS	NPW04.00050	Yes	NJ	7/1/2002
Oxygen (dissolved)	NPW	Certified	SM 4500-O G-11	Membrane Electrode	NPW04.00230	Yes	NJ	7/1/2002
Oxygen (dissolved)	NPW	Certified	SM 4500-O C-11	Winkler, Azide Modification	NPW04.00310	Yes	NJ	7/1/2002
pH	NPW	Certified	SM 4500-H B-11	Electrometric	NPW04.00380	Yes	NJ	5/16/2017
pH (corrosivity)	NPW	Certified	SW-846 9040C	Aqueous, Electrometric	NPW04.00420	Yes	NJ	5/16/2017
Sulfite - SO3	NPW	Certified	SM 4500-903 B-11	Titrimetric, lodine-lodate	NPW04.00470	Yes	NJ	7/1/2002
Temperature	NPW	Certified	SM 2550 B-00	Thermometric	NPW04.00490		NJ	7/1/2002
Metals	NPW	Certified	SW-846 1311	TCLP, Toxicity Procedure, Shaker	NPW06.00020	Yes	NJ	7/1/2002
Metals	NPW	Certified	SW-846 1312	Synthetic PPT Leachate Procedure	NPW06.00030	Yes	NJ	7/1/2002
Metals, Total Rec and Dissolved	NPW	Certified	SW-846 3005A	Acid Digestion/Surface and Groundwater,	NPW06.00050	Yes	NJ	7/1/2002
Metals, Total	NPW	Certified	SW-846 3010A	Acid Digestion/Aqueous Samples, ICP,	NPW06.00060	Yes	NJ	7/1/2002
Chromium (VI)	NPW	Certified	SW-846 7196A	Colorimetric		Yes	NJ	7/1/2002
Chromium (VI)	NPW	Certified	SM 3500-Cr B-11	0.45u Filter, Colorimetric DPC	NPW07.01020	Yes	NJ	7/1/2002
Chromium (VI)	NPW	Certified	SW-846 7199	ion Chromatography	NPW07.01050		NJ	4/21/2006
Iron, Ferrous	NPW	Certified	SM 3500-Fe B-11	Digestion, Colorimetric (Phenanthroline)	NPW07.01690	No	NJ	4/6/2010
Mercury	NPW	Certified	EPA 245.7	Cold Vapor Atomic Fluorescence	NPW07.02130	Yes	NJ	10/6/2010
Mercury	NPW	Certified	EPA 245.7	Manual Cold Vapor	NPW07.02150	Yes	NJ	7/1/2002
	NPW	Certified	SW-846 7470A	AA, Manual Cold Vapor	NPW07.02190	Yes	NJ	7/1/2002
Mercury - liquid waste Mercury	NPW	Certified	EPA 1631E	Purge & Trap Atomic Fluorescence	NPW07.02190	Yes	NJ NJ	10/6/2010
Silica - dissolved Aluminum	NPW	Certified	SM 4500-SIO2 C-11	0.45u Fitration + Colorimetric (Manual)	NPW07.02860	Yes	NJ	7/1/2002 7/1/2002
	NPW	Certified	SW-846 6010B	ICP	NPW08.00001	Yes	NJ	
Aluminum	NPW	Certified	SW-846 6010C	ICP ICP	NPW08.00010	Yes	NJ	7/1/2002
Aluminum	NPW	Certified	SW-846 6010D		NPW08.00012	Yes	NJ	7/1/2017
Aluminum	NPW	Certified	EPA 200.7	Digestion, ICP	NPW08.00050	Yes	NJ	7/1/2002
Aluminum	NPW	Certified	SW-846 6020	ICP/MS	NPW08.00070	Yes	NJ	8/13/2003
Aluminum	NPW	Certified	SW-846 6020A	ICP/MS	NPW08.00080	Yes	NJ	8/13/2003
Aluminum	NPW	Certified	SW-846 6020B	ICP/MS	NPW08.00082	Yes	NJ	7/1/2017
	_					Yes	NJ	5/16/2003
Aluminum	NPW	Certified	EPA 200.8	Digestion, ICP/MS	NPW08.00130			
Aluminum Antimony	NPW	Certified	SW-846 6010B	ICP	NPW08.00170	Yes	NJ	7/1/2002
Aluminum Antimony Antimony	NPW NPW	Certified Certified	SW-846 6010B SW-846 6010C	ICP ICP	NPW08.00170 NPW08.00180	Yes Yes	NJ NJ	7/1/2002 7/1/2002
Aluminum Antimony Antimony Antimony	NPW NPW NPW	Certified Certified Certified	SW-845 6010B SW-846 6010C SW-845 6010D	ICP ICP ICP	NPW08.00170 NPW08.00180 NPW08.00182	Yes Yes Yes	NJ NJ	7/1/2002 7/1/2002 7/1/2017
Aluminum Antimony Antimony	NPW NPW	Certified Certified	SW-846 6010B SW-846 6010C	ICP ICP	NPW08.00170 NPW08.00180	Yes Yes	NJ NJ	7/1/2002 7/1/2002



Antimony	NPW	Certified	SW-846 6020	ICP/MS	NPW08.00240	Yes	NJ	8/13/2003
Antimony	NPW	Certified	SW-846 6020A	ICP/MS	NPW08.00250	Yes	NJ	8/13/2003
Antimony	NPW	Certified	SW-846 6020B	ICP/MS	NPW08.00252	Yes	NJ	7/1/2017
Antimony	NPW	Certified	EPA 200.8	Digestion, ICP/MS	NPW08.00300	Yes	NJ	5/16/2003
Arsenic	NPW	Certified	SW-846 6010B	ICP	NPW08.00330	Yes	NJ	7/1/2002
Arsenic	NPW	Certified	SW-846 6010C	ICP	NPW08.00340	Yes	NJ	7/1/2002
Arsenic	NPW	Certified	SW-846 6010D	ICP	NPW08.00342	Yes	NJ	7/1/2017
Arsenic	NPW	Certified	EPA 200.7	Digestion, ICP	NPW08.00370	Yes	NJ	7/1/2002
Arsenic	NPW	Certified	SW-846 6020	ICP/MS	NPW08.00390	Yes	NJ	8/13/2003
Arsenic	NPW	Certified	SW-846 6020A	ICP/MS	NPW08.00400	Yes	NJ	8/13/2003
Arsenic	NPW	Certified	SW-846 6020B	ICP/MS	NPW08.00402	Yes	NJ	7/1/2017
Arsenic	NPW	Certified	EPA 200.8	Digestion, ICP/MS	NPW08.00450	Yes	NJ	5/16/2003
Barlum	NPW	Certified	SW-846 6010B	ICP	NPW08.00470	Yes	NJ	7/1/2002
Barlum	NPW	Certified	SW-846 6010C	ICP	NPW08.00480	Yes	NJ	7/1/2002
Barlum	NPW	Certified	SW-846 6010D	ICP	NPW08.00482	Yes	NJ	7/1/2017
Barium	NPW	Certified	EPA 200.7	Digestion, ICP	NPW08.00510	Yes	NJ	7/1/2002
Barlum	NPW	Certified	SW-846 6020	ICP/MS	NPW08.00530	Yes	NJ	8/13/2003
Barlum	NPW	Certified	SW-846 6020A	ICP/MS	NPW08.00540	Yes	NJ	8/13/2003
Barium	NPW	Certified	SW-846 6020B	ICP/MS	NPW08.00542	Yes	NJ	7/1/2017
Barlum	NPW	Certified	EPA 200.8	Digestion, ICP/MS	NPW08.00590	Yes	NJ	5/16/2003
Beryllum	NPW	Certified	SW-846 6010B	ICP	NPW08.00630	Yes	NJ	7/1/2002
Beryllum	NPW	Certified	SW-846 6010C SW-846 6010D	ICP	NPW08.00640 NPW08.00642	Yes	NJ	7/1/2002
Beryllum	NPW	Certified		ICP		Yes	NJ	7/1/2017
Beryllum	NPW	Certified	EPA 200.7	Digestion, ICP	NPW08.00680	Yes	NJ	7/1/2002
Beryllum	NPW	Certified	SW-846 6020 SW-846 6020A	ICP/MS	NPW08.00700 NPW08.00710	Yes	NJ NJ	8/13/2003
Beryllum	NPW	Certified	SW-846 6020A SW-846 6020B	ICP/MS ICP/MS		Yes	NJ	8/13/2003 7/1/2017
Beryllum	NPW	Certified Certified			NPW08.00712	Yes	NJ N I	
Beryllum	NPW		EPA 200.8	Digestion, ICP/MS ICP	NPW08.00760	Yes	NJ NJ	5/16/2003 7/1/2002
Boron	NPW NPW	Certified	SW-846 6010B	ICP	NPW08.00810	Yes	NJ NJ	7/1/2002
Boron	NPW	Certified Certified	SW-846 6010C	ICP ICP	NPW08.00820	Yes		7/1/2002
Boron	NPW	Certified	SW-846 6010D EPA 200.7	ICP	NPW08.00822	Yes	NJ NJ	
Boron	NPW			ICP/MS	NPW08.00860 NPW08.00890	Yes	NJ NJ	7/1/2002 7/13/2017
Boron Boron	NPW	Certified Certified	SW-846 6020A SW-846 6020B	ICP/MS	NPW08.00890	Yes	NJ NJ	7/13/2017 7/13/2017
Boron	NPW	Certified	EPA 200.8	ICP/MS	NPW08.00940	Yes	NJ	7/13/2017
Cadmium	NPW	Certified	SW-846 6010B	ICP	NPW08.00970	Yes	NJ	7/1/2002
Cadmium	NPW	Certified	SW-846 6010C	ICP	NPW08.00980	Yes	NJ	7/1/2002
Cadmium	NPW	Certified	SW-846 6010D	ICP	NPW08.00982	Yes	NJ	7/1/2017
Cadmium	NPW	Certified	EPA 200.7	Digestion, ICP	NPW08.01030	Yes	NJ	7/1/2002
Cadmium	NPW	Certified	SW-846 6020	ICP/MS	NPW08.01050	Yes	NJ	8/13/2003
Cadmium	NPW	Certified	SW-846 6020A	ICP/MS	NPW08.01060	Yes	NJ	8/13/2003
Cadmium	NPW	Certified	SW-846 6020B	ICP/MS	NPW08.01062	Yes	NJ	7/1/2017
Cadmium	NPW	Certified	EPA 200.8	Digestion, ICP/MS	NPW08.01110	Yes	NJ	5/16/2003
Calcium	NPW	Certified	SW-846 6010B	ICP	NPW08.01160	Yes	NJ	7/1/2002
Calcium	NPW	Certified	SW-846 6010C	ICP	NPW08.01170	Yes	NJ	7/1/2002
Calcium	NPW	Certified	SW-846 6010D	ICP	NPW08.01172	Yes	NJ	7/1/2017
Calcium	NPW	Certified	EPA 200.7	Digestion, ICP	NPW08.01200	Yes	NJ	7/1/2004
Calcium	NPW	Certified	SW-846 6020	ICP/MS	NPW08.01220	Yes	NJ	7/1/2004
Calcium	NPW	Certified	SW-846 6020A	ICP/MS	NPW08.01230	Yes	NJ	7/1/2004
Calcium	NPW	Certified	SW-846 6020B	ICP/MS	NPW08.01232	Yes	NJ	7/1/2017
Calcium	NPW	Certified	EPA 200.8	Digestion, ICP/MS	NPW08.01270	Yes	NJ	7/1/2004
Chromium	NPW	Certified	SW-846 6010B	ICP	NPW08.01300	Yes	NJ	7/1/2002
Chromium	NPW	Certified	SW-846 6010C	ICP	NPW08.01310	Yes	NJ	7/1/2002
Chromium	NPW	Certified	SW-846 6010D	ICP	NPW08.01312	Yes	NJ	7/1/2017
Chromium	NPW	Certified	EPA 200.7	Digestion, ICP	NPW08.01350	Yes	NJ	7/1/2002
Chromium	NPW	Certified	SW-846 6020	ICP/MS	NPW08.01370	Yes	NJ	8/13/2003
Chromium	NPW	Certified	SW-846 6020A	ICP/MS	NPW08.01380	Yes	NJ	8/13/2003
Chromium	NPW	Certified	SW-846 6020B	ICP/MS	NPW08.01382	Yes	NJ	7/1/2017
Chromium	NPW	Certified	EPA 200.8	Digestion, ICP/MS	NPW08.01430	Yes	NJ	7/1/2002
Cobalt	NPW	Certified	SW-846 6010B	ICP	NPW08.01490	Yes	NJ	7/1/2002
Cobalt	NPW	Certified	SW-846 6010C	ICP	NPW08.01500	Yes	NJ	7/1/2002
Cobalt	NPW	Certified	SW-846 6010D	ICP	NPW08.01502	Yes	NJ	7/1/2017
Cobalt	NPW	Certified	EPA 200.7	Digestion, ICP	NPW08.01530	Yes	NJ	7/1/2002
Cobalt	NPW	Certified	SW-846 6020	ICP/MS	NPW08.01550	Yes	NJ	8/13/2003
Cobalt	NPW	Certified	SW-846 6020A SW-846 6020B	ICP/MS	NPW08.01560	Yes	NJ	8/13/2003
Cobalt	NPW	Certified	011 040 00200	ICP/MS	NPW08.01562	Yes	NJ	7/1/2017
Cobalt	NPW	Certified	EPA 200.8	Digestion, ICP/MS	NPW08.01610	Yes	NJ	5/16/2003
Copper	NPW	Certified	SW-846 6010B	ICP	NPW08.01640	Yes	NJ	7/1/2002
Copper	NPW	Certified	SW-846 6010C	ICP ICP	NPW08.01650	Yes	NJ	7/1/2002
Copper	NPW	Certified	SW-846 6010D	Digestion, ICP	NPW08.01652	Yes	NJ NJ	7/1/2017
Copper	NPW	Certified	EPA 200.7	ICP/MS	NPW08.01690	Yes	NJ	7/1/2002
Copper	NPW	Certified	SW-846 6020	ICPIMS ICPIMS	NPW08.01710	Yes	NJ	8/13/2003
Copper	NPW	Certified Certified	SW-846 6020A SW-846 6020B	ICPIMS ICPIMS	NPW08.01720 NPW08.01722	Yes	NJ NJ	8/13/2003 7/1/2017
Copper	NPW	Certified	EPA 200.8	Digestion, ICP/MS	NPW08.01770	Yes	NJ	5/16/2003
Hardness - total as CaCO3	NPW	Certified	EPA 200.7	Ca + Mg Carbonates, ICP	NPW08.01770	Yes	NJ	7/1/2002
Iron	NPW	Certified	SW-846 6010B	ICP	NPW08.01990	Yes	NJ	7/1/2002
Iron	NPW	Certified	SW-846 6010C	ICP	NPW08.02000	Yes	NJ	7/1/2002
Iron	NPW	Certified	SW-846 6010D	ICP	NPW08.02002	Yes	NJ	7/1/2017
iron	NPW	Certified	EPA 200.7	Digestion, ICP	NPW08.02002	Yes	NJ	7/1/2017
Iron	NPW	Certified	SW-846 6020	ICP/MS	NPW08.02060	Yes	NJ	7/1/2004
Iron	NPW	Certified	SW-846 6020A	ICP/MS	NPW08.02060	Yes	NJ	7/1/2004
Iron	NPW	Certified	SW-846 6020B	ICP/MS	NPW08.02072	Yes	NJ	7/1/2017
Iron	NPW	Certified	EPA 200.8	Digestion, ICP/MS	NPW08.02110	Yes	NJ	7/1/2004
Lead	NPW	Certified	SW-846 6010B	ICP	NPW08.02160	Yes	NJ	7/1/2002
Lead	NPW	Certified	SW-846 6010C	ICP	NPW08.02170	Yes	NJ	7/1/2002
Lead	NPW	Certified	SW-846 6010D	ICP	NPW08.02172	Yes	NJ	7/1/2017
Lead	NPW	Certified	EPA 200.7	Digestion, ICP	NPW08.02210	Yes	NJ	7/1/2002
LEGU								
Lead	NPW	Certified	SW-846 6020	ICP/MS	NPW08.02230	Yes	NJ	8/13/2003
		Certified Certified	SW-846 6020 SW-846 6020A	ICP/MS ICP/MS	NPW08.02230 NPW08.02240	Yes	NJ NJ	8/13/2003 8/13/2003
Lead	NPW							
Lead Lead	NPW NPW	Certified	SW-846 6020A	ICP/MS	NPW08.02240	Yes	NJ	8/13/2003
Lead Lead Lead	NPW NPW	Certified Certified	SW-845 6020A SW-846 6020B	ICP/MS ICP/MS	NPW08.02240 NPW08.02242	Yes Yes Yes	NJ NJ	8/13/2003 7/1/2017



Lithium	NPW	Certified	SW-846 6010C	ICP	NPW08.02360	Yes	NJ	2/10/2017
Lithium	NPW	Certified	SW-846 6010D	ICP	NPW08.02362	Yes	NJ	7/1/2017
Magnesium	NPW	Certified	SW-846 6010B	ICP	NPW08.02370	Yes	NJ	7/1/2002
Magnesium	NPW	Certified	SW-846 6010C	ICP	NPW08.02380	Yes	NJ	7/1/2002
Magnesium	NPW	Certified	SW-846 6010D	ICP	NPW08.02382	Yes	NJ	7/1/2017
Magnesium	NPW	Certified	EPA 200.7	Digestion, ICP	NPW08.02420	Yes	NJ	7/1/2002
Magnesium	NPW	Certified	SW-846 6020	ICP/MS	NPW08.02440	Yes	NJ	7/1/2004
Magnesium	NPW	Certified	SW-846 6020A	ICP/MS	NPW08.02450	Yes	NJ	7/1/2004
Magnesium	NPW	Certified	SW-846 6020B	ICP/MS	NPW08.02452	Yes	NJ	7/1/2017
Magnesium	NPW	Certified	EPA 200.8	Digestion, ICP/MS	NPW08.02490	Yes	NJ	7/1/2004
Manganese	NPW	Certified	SW-846 6010B	ICP	NPW08.02530	Yes	NJ	7/1/2002
Manganese	NPW	Certified	SW-846 6010C	ICP	NPW08.02540	Yes	NJ	7/1/2002
Manganese	NPW	Certified	SW-846 6010D	ICP	NPW08.02542	Yes	NJ	7/1/2017
Manganese	NPW	Certified	EPA 200.7	Digestion, ICP	NPW08.02580	Yes	NJ	7/1/2002
Manganese	NPW	Certified	SW-846 6020	ICP/MS	NPW08.02600	Yes	NJ	8/13/2003
Manganese	NPW	Certified	SW-846 6020A	ICP/MS	NPW08.02610	Yes	NJ	8/13/2003
Manganese	NPW	Certified	SW-846 6020B	ICP/MS	NPW08.02612	Yes	NJ	7/1/2017
Manganese	NPW	Certified	EPA 200.8	Digestion, ICP/MS	NPW08.02660	Yes	NJ	7/1/2002
Molybdenum	NPW	Certified	SW-846 6010B	ICP	NPW08.02710	Yes	NJ	7/1/2002
Molybdenum	NPW	Certified Certified	SW-846 6010C	ICP ICP	NPW08.02720 NPW08.02722	Yes	NJ	7/1/2002
Molybdenum	NPW		SW-846 6010D			Yes	NJ	7/1/2017
Molybdenum	NPW	Certified	EPA 200.7	Digestion, ICP	NPW08.02750	Yes	NJ	7/1/2002
Molybdenum	NPW	Certified	SW-846 6020	ICP/MS	NPW08.02770	Yes	NJ	7/1/2004
Molybdenum	NPW	Certified	SW-846 6020A	ICP/MS	NPW08.02780	Yes	NJ	7/1/2004
Molybdenum	NPW	Certified	SW-846 6020B	ICP/MS	NPW08.02782	Yes	NJ	7/1/2017
Molybdenum	NPW	Certified	EPA 200.8	Digestion, ICP/MS	NPW08.02830	Yes	NJ	5/16/2003
Nickel	NPW	Certified	SW-846 6010B	ICP	NPW08.02860	Yes	NJ	7/1/2002
Nickel	NPW	Certified	SW-846 6010C	ICP	NPW08.02870	Yes	NJ	7/1/2002
Nickel	NPW	Certified	SW-846 6010D	ICP	NPW08.02872	Yes	NJ	7/1/2017
Nickel	NPW	Certified	EPA 200.7	Digestion, ICP	NPW08.02910	Yes	NJ	7/1/2002
Nickel	NPW	Certified	SW-846 6020	ICP/MS	NPW08.02930	Yes	NJ	8/13/2003
Nickel	NPW	Certified	SW-846 6020A	ICP/MS	NPW08.02940	Yes	NJ	8/13/2003
Nickel	NPW	Certified	SW-846 6020B	ICP/MS	NPW08.02942	Yes	NJ	7/1/2017
Nickel	NPW	Certified	EPA 200.8	Digestion, ICP/MS	NPW08.02990	Yes	NJ	5/16/2003
Potassium	NPW	Certified	SW-846 6010B	ICP	NPW08.03130	Yes	NJ	7/1/2002
Potassium	NPW	Certified	SW-846 6010C	ICP	NPW08.03140	Yes	NJ	7/1/2002
Potassium	NPW	Certified	SW-846 6010D	ICP	NPW08.03142	Yes	NJ	7/1/2017
Potassium	NPW	Certified	EPA 200.7	Digestion, ICP	NPW08.03150	Yes	NJ	7/1/2002
Potassium	NPW	Certified	EPA 200.8	Digestion, ICP/MS	NPW08.03200	Yes	NJ	7/1/2004
Potassium	NPW	Certified	SW-846 6020	ICP/MS	NPW08.03220	Yes	NJ	7/1/2004
Potassium	NPW	Certified	SW-846 6020A	ICP/MS	NPW08.03230	Yes	NJ	7/1/2004
Potassium	NPW	Certified	SW-846 6020B	ICP/MS	NPW08.03232	Yes	NJ	7/1/2017
Selenium	NPW	Certified	SW-846 6010B	ICP	NPW08.03270	Yes	NJ	7/1/2002
Selenium	NPW	Certified	SW-846 6010C	ICP	NPW08.03280	Yes	NJ	7/1/2002
Selenium	NPW	Certified	SW-846 6010D	ICP	NPW08.03282	Yes	NJ	7/1/2017
Selenium	NPW	Certified	EPA 200.7	Digestion, ICP	NPW08.03310	Yes	NJ	7/1/2007
Selenium	NPW	Certified	SW-846 6020	ICP/MS	NPW08.03330	Yes	NJ	8/13/2003
Selenium	NPW	Certified	SW-846 6020A	ICP/MS	NPW08.03340	Yes	NJ	8/13/2003
Selenium	NPW	Certified	SW-846 6020B	ICP/MS	NPW08.03342	Yes	NJ	7/1/2017
Selenium	NPW	Certified	EPA 200.8	Digestion, ICP/MS	NPW08.03390	Yes	NJ	5/16/2003
Silica - dissolved	NPW	Certified	EPA 200.7	0.45u Fitration + ICP	NPW08.03440	Yes	NJ	7/1/2007
Silver	NPW	Certified	SW-846 6010B	ICP	NPW08.03520	Yes	NJ	7/1/2002
Silver	NPW	Certified	SW-846 6010C	ICP	NPW08.03530	Yes	NJ	7/1/2002
Silver	NPW	Certified	SW-846 6010D	ICP	NPW08.03532	Yes	NJ	7/1/2017
Silver	NPW	Certified	EPA 200.7	Digestion, ICP	NPW08.03570	Yes	NJ	7/1/2002
Silver	NPW	Certified	SW-846 6020	ICP/MS	NPW08.03590	Yes	NJ	8/13/2003
Silver			SW-846 6020A	ICP/MS	NPW08.03600	Yes	NJ	8/13/2003
Silver	NPW			100.010		Mari		
Section 1		Certified Certified	SW-846 6020B	ICP/MS	NPW08.03602	Yes	NJ	7/1/2017
Silver	NPW NPW NPW	Certified Certified Certified		Digestion, ICP/MS	NPW08.03602 NPW08.03650	Yes	NJ NJ	7/1/2017 5/16/2003
	NPW NPW NPW	Certified Certified Certified Certified	SW-845 6020B EPA 200.8 SW-845 6010B	Digestion, ICP/MS ICP	NPW08.03650 NPW08.03700	Yes Yes	NJ NJ	5/16/2003 7/1/2002
Silver Sodium Sodium	NPW NPW NPW NPW	Certified Certified Certified Certified Certified	SW-846 6020B EPA 200.8 SW-846 6010B SW-846 6010C	Digestion, ICP/MS ICP ICP	NPW08.03650 NPW08.03700 NPW08.03710	Yes	NJ NJ NJ	5/16/2003 7/1/2002 7/1/2002
Silver Sodium	NPW NPW NPW NPW NPW	Certified Certified Certified Certified Certified Certified	SW-845 6020B EPA 200.8 SW-845 6010B SW-845 6010C SW-846 6010D	Digestion, ICP/MS ICP ICP ICP	NPW08.03650 NPW08.03700 NPW08.03710 NPW08.03712	Yes Yes	NJ NJ NJ	5/16/2003 7/1/2002 7/1/2002 7/1/2017
Silver Sodium Sodium Sodium Sodium	NPW NPW NPW NPW NPW NPW NPW	Certified Certified Certified Certified Certified Certified Certified	SW-846 60208 EPA 200.8 SW-946 5010B SW-946 6010C SW-946 6010D EPA 200.7	Digestion, ICP/MS ICP ICP ICP Digestion, ICP	NPW08.03650 NPW08.03700 NPW08.03710 NPW08.03712 NPW08.03740	Yes Yes Yes Yes Yes	NJ NJ NJ NJ	5/16/2003 7/1/2002 7/1/2002 7/1/2017 7/1/2002
Silver Sodium Sodium Sodium Sodium Sodium	NPW NPW NPW NPW NPW NPW NPW	Certified Certified Certified Certified Certified Certified Certified Certified	SW-845 60208 EPA 200.8 SW-845 6010B SW-845 6010C SW-845 6010D EPA 200.7 SW-845 6020	Olgestion, ICPIMS ICP ICP ICP ICP ICP ICP ICP ICPIMS	NPW08.03650 NPW08.03700 NPW08.03710 NPW08.03712 NPW08.03740 NPW08.03760	Yes Yes Yes Yes	NJ NJ NJ NJ NJ	5/16/2003 7/1/2002 7/1/2002 7/1/2017 7/1/2002 7/1/2004
Silver Sodium Sodium Sodium Sodium Sodium Sodium	NPW NPW NPW NPW NPW NPW NPW NPW	Certified Certified Certified Certified Certified Certified Certified Certified Certified	SW-945 60208 EPA 200.8 SW-945 6010B SW-945 6010C SW-945 6010D EPA 200.7 SW-945 6020 SW-945 6020A	Digestion, ICPIMS ICP ICP ICP ICP Digestion, ICP Digestion, ICP ICPIMS	NPW08.03650 NPW08.03700 NPW08.03710 NPW08.03712 NPW08.03740 NPW08.03760 NPW08.03770	Yes Yes Yes Yes Yes Yes Yes	N3 N3 N3 N3 N3 N3 N3 N3 N3 N3 N3 N3 N3 N	5/16/2003 7/1/2002 7/1/2002 7/1/2017 7/1/2002 7/1/2004 7/1/2004
Silver Sodium Sodium Sodium Sodium Sodium Sodium Sodium Sodium	NPW NPW NPW NPW NPW NPW NPW NPW NPW	Certified	SW-945 60208 EPA 200.8 SW-945 60108 SW-945 60100 SW-946 60100 EPA 200.7 SW-946 6020 SW-946 6020A SW-946 6020A	Digestion, ICPIMS ICP ICP ICP ICP ICPIMS ICPIMS ICPIMS	NPW08.03650 NPW08.03700 NPW08.03710 NPW08.03712 NPW08.03740 NPW08.03760 NPW08.03770 NPW08.03770	Yes	N N N N N N N N N N N N N N N N N N N	5/16/2003 7/1/2002 7/1/2002 7/1/2017 7/1/2002 7/1/2004 7/1/2004 7/1/2017
Silver Sodium Sodium Sodium Sodium Sodium Sodium	NPW	Certified	SW-845 50208 EPA 200.9 SW-945 50108 SW-945 50100 SW-945 50100 EPA 200.7 SW-945 5020 SW-945 6020 SW-945 60208	Digestion, ICPIMS ICP ICP ICP Digestion, ICP ICPIMS ICPIMS ICPIMS ICPIMS ICPIMS ICPIMS	NPW08.03650 NPW08.03700 NPW08.03710 NPW08.03712 NPW08.03740 NPW08.03760 NPW08.03770 NPW08.03772 NPW08.03772	Yes Yes Yes Yes Yes Yes Yes	NJ NJ NJ NJ NJ NJ NJ NJ NJ	5/16/2003 7/1/2002 7/1/2002 7/1/2017 7/1/2002 7/1/2004 7/1/2004 7/1/2017 7/1/2005
Silver Sodium	NPW NPW NPW NPW NPW NPW NPW NPW NPW NPW	Certified	SW-946 50208 EPA 200.9 SW-946 50108 SW-946 50100 SW-946 50100 EPA 200.7 SW-946 5020 SW-946 5020 SW-946 5020A SW-946 5020A	Digestion, ICPAMS ICP	NPW08.03650 NPW08.03700 NPW08.03710 NPW08.03712 NPW08.03740 NPW08.03760 NPW08.03770 NPW08.03770 NPW08.03810 NPW08.03840	Yes	22 22 22 22 22 22 22 22 22 22 22 22 22	5/16/2003 7/1/2002 7/1/2002 7/1/2007 7/1/2002 7/1/2004 7/1/2004 7/1/2004 7/1/2005 9/8/2016
Solum Sodium Sodium Sodium Sodium Sodium Sodium Sodium Sodium	NPW	Certified	SW-845 50208 EPA 200.9 SW-945 50108 SW-945 50100 SW-945 50100 EPA 200.7 SW-945 5020 SW-945 6020 SW-945 6020 SW-945 60208	Digestion, ICPM/S ICP ICP ICP ICP ICP ICP/IMS ICP/IMS ICP/IMS ICP/IMS Digestion, ICPIMS Digestion, ICPIMS Digestion, ICPIMS	NPW08.03650 NPW08.03700 NPW08.03710 NPW08.03712 NPW08.03740 NPW08.03760 NPW08.03770 NPW08.03770 NPW08.03810 NPW08.03810 NPW08.03840	Yes	2 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5/16/2003 7/1/2002 7/1/2017 7/1/2017 7/1/2017 7/1/2004 7/1/2004 7/1/2005 9/8/2016 7/1/2002
Silver Sodium	NPW	Certified	SW-946 50208 EPA 200.9 SW-946 50108 SW-946 50100 SW-946 50100 EPA 200.7 SW-946 5020 SW-946 5020 SW-946 5020A SW-946 5020A	Digestion, ICPIMS ICP ICP ICP Digestion, ICP Digestion, ICP ICPIMS ICPIMS ICPIMS Digestion, ICPMS Digestion, ICPMS Digestion, ICPMS Digestion, ICP ICP ICP ICP ICP	NPW08.03650 NPW08.03700 NPW08.03710 NPW08.03712 NPW08.03740 NPW08.03760 NPW08.03770 NPW08.03770 NPW08.03810 NPW08.03840	Yes	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5/16/2003 7/1/2002 7/1/2007 7/1/2017 7/1/2004 7/1/2004 7/1/2017 7/1/2005 9/8/2016 7/1/2002 7/1/2002
Silver Sodium	NPW	Certified	SW-946 50208 EFA 200.8 SW-946 50108 SW-946 50100 SW-946 50100 EFA 200.7 SW-946 5020A SW-946 5020A SW-946 5020B EFA 200.7 SW-946 5020B SW-946 5020B SW-946 5020B SW-946 5020B SW-946 5020B	Digestion, ICPM/S ICP ICP ICP ICP ICP ICPIMS ICPIMS ICPIMS ICPIMS Digestion, ICP Digestion, ICPM/S Digestion, ICPM/S Digestion, ICPM/S ICPIMS ICP	NPW08.03650 NPW08.03700 NPW08.03710 NPW08.03712 NPW08.03750 NPW08.03750 NPW08.03770 NPW08.03770 NPW08.03850 NPW08.03840 NPW08.03850 NPW08.03850	Yes	2 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5/16/2003 7/1/2002 7/1/2002 7/1/2007 7/1/2007 7/1/2004 7/1/2004 7/1/2005 9/8/2016 7/1/2002
Silver Sodium	NPW	Certified	SW-846 50208 EPA 200.9 SW-946 5010B SW-946 5010C EPA 200.7 SW-946 5020 SW-946 5020A SW-946 5020A SW-946 5020B EPA 200.8 EPA 200.7 SW-946 6010B SW-946 6010B	Digestion, ICPIMS ICP ICP ICP ICP ICP ICPIMS ICPIMS ICPIMS ICPIMS Digestion, ICPIMS DIGESTION	NPW08.03650 NPW08.03710 NPW08.03711 NPW08.03712 NPW08.03760 NPW08.03760 NPW08.03770 NPW08.03772 NPW08.03810 NPW08.03850 NPW08.03860	Yes	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5/16/2003 7/1/2002 7/1/2002 7/1/2002 7/1/2004 7/1/2004 7/1/2004 7/1/2017 7/1/2005 9/8/2016 7/1/2002 7/1/2002
Silver Sodium Strontium Strontium Strontium Strontium	NPW	Certified	SW-946 50208  EPA 200.9  SW-946 50108  SW-946 50100  EPA 200.7  SW-946 50100  EPA 200.7  SW-946 50200  SW-946 50200  EPA 200.8  EPA 200.8  EPA 200.8  EPA 200.9  SW-946 50100  SW-946 50100  SW-946 50100  SW-946 50100  SW-946 50208	Olgestion, ICPAMS ICP	NPW08.03650 NPW08.03700 NPW08.03710 NPW08.03712 NPW08.03750 NPW08.03750 NPW08.03770 NPW08.03770 NPW08.03850 NPW08.03840 NPW08.03850 NPW08.03850	Yes	22 22 23 24 24 24 24 24 24 24 24 24 24 24 24 24	5/16/2003 7/1/2002 7/1/2002 7/1/2017 7/1/2002 7/1/2004 7/1/2004 7/1/2005 9/8/2016 7/1/2002 7/1/2002 7/1/2017 7/1/2017 7/1/2017
Silver Sodium So	NPW	Certified	SW-946 50208 EPA 200.9 SW-946 5010B SW-946 5010C SW-946 5010C EPA 200.7 SW-946 5020 SW-946 5020 SW-946 5020B EPA 200.8 EPA 200.7 SW-946 5020B SW-946 5010B SW-946 5010C SW-946 5010C SW-946 5010C SW-946 5010C	Digestion, ICPIMS ICP ICP ICP ICP ICP ICPIMS ICPIMS ICPIMS ICPIMS Digestion, ICPIMS ICPIMS ICP	NPW08.03650 NPW08.03700 NPW08.03710 NPW08.03712 NPW08.03712 NPW08.03740 NPW08.03750 NPW08.03750 NPW08.03810 NPW08.03840 NPW08.03860 NPW08.03860 NPW08.03860 NPW08.03880 NPW08.03880 NPW08.03880 NPW08.03880	Yes	22 22 23 24 24 24 24 24 24 24 24 24 24 24 24 24	5/16/2003 7/1/2002 7/1/2002 7/1/2017 7/1/2004 7/1/2004 7/1/2017 7/1/2005 9/8/2016 7/1/2002 7/1/2002 7/1/2017 7/1/2017 7/1/2017 7/1/2017
Silver Sodium	NPW	Certified	SW-846 50208  EPA 200.8  SW-946 5010B  SW-946 5010C  EPA 200.7  SW-946 5020  SW-946 5020A  SW-946 5020A  SW-946 5020B  EPA 200.7  SW-946 5020B  EPA 200.8  EPA 200.8  SW-946 5010C  SW-946 5010C  SW-946 5010C  SW-946 5010C	Olgestion, ICPAMS ICP ICP ICP ICP ICP ICP ICP ICP ICPAMS ICPIMS	NPW08.03650 NPW08.03700 NPW08.03710 NPW08.03712 NPW08.03712 NPW08.03740 NPW08.03760 NPW08.03770 NPW08.03810 NPW08.03840 NPW08.03840 NPW08.03860 NPW08.03860 NPW08.03860 NPW08.03860 NPW08.03860 NPW08.03860 NPW08.03860 NPW08.03860 NPW08.03860	Yes	222222222222222222222222222222222222222	5/16/2003 7/1/2002 7/1/2002 7/1/2017 7/1/2004 7/1/2004 7/1/2004 7/1/2017 7/1/2002 7/1/2002 7/1/2002 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2002 7/1/2002
Silver Sodium So	NPW	Certified	SW-946 50208 EPA 200.9 SW-946 5010B SW-946 5010C SW-946 5010C EPA 200.7 SW-946 5020 SW-946 5020 SW-946 5020B EPA 200.8 EPA 200.7 SW-946 5020B SW-946 5010B SW-946 5010C SW-946 5010C SW-946 5010C SW-946 5010C	Digestion, ICPIMS ICP ICP ICP ICP ICP ICPIMS ICPIMS ICPIMS ICPIMS ICPIMS Digestion, ICP ICPIMS Digestion, ICPIMS Digestion, ICPIMS ICP	NPW08.03650 NPW08.03700 NPW08.03710 NPW08.03712 NPW08.03712 NPW08.03740 NPW08.03750 NPW08.03750 NPW08.03810 NPW08.03840 NPW08.03860 NPW08.03860 NPW08.03860 NPW08.03880 NPW08.03880 NPW08.03880 NPW08.03880	Yes	222222222222222222222222222222222222222	5/16/2003 7/1/2002 7/1/2002 7/1/2017 7/1/2004 7/1/2004 7/1/2017 7/1/2005 9/8/2016 7/1/2002 7/1/2002 7/1/2017 7/1/2017 7/1/2017 7/1/2017
Silver Sodium Strontium Strontium Strontium Strontium Strontium Strontium Strontium Strontium	NPW	Certified	SW-946 50208 EPA 200.9 SW-946 50108 SW-946 50100 SW-946 50100 EPA 200.7 SW-946 5020 SW-946 5020 SW-946 5020 SW-946 50208 EPA 200.7 SW-946 5010B SW-946 5010C	Digestion, ICPM/S ICP ICP ICP ICP ICP ICP ICP/M/S ICP/M/S ICP/M/S ICP/M/S Digestion, ICP/ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP	NPW08.03650 NPW08.03700 NPW08.03710 NPW08.03712 NPW08.03712 NPW08.03740 NPW08.03760 NPW08.03770 NPW08.03810 NPW08.03840 NPW08.03840 NPW08.03860 NPW08.03860 NPW08.03860 NPW08.03860 NPW08.03860 NPW08.03860 NPW08.03860 NPW08.03860 NPW08.03860	Yes	222222222222222222222222222222222222222	5/16/2003 7/1/2002 7/1/2017 7/1/2017 7/1/202 7/1/2004 7/1/2004 7/1/2017 7/1/2005 9/8/2016 7/1/2002 7/1/2002 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017
Silver Sodium Strontium Strontium Strontium Strontium Strontium Thalium Thalium Thalium	NPW	Certified	SW-946 50208 EPA 200.9 SW-946 5010B SW-946 5010C SW-946 5010C EPA 200.7 SW-946 5020 EPA 200.7 SW-946 5020 SW-946 5020 EPA 200.8 EPA 200.8 EPA 200.7 SW-946 5010B SW-946 5010C	Digestion, ICPIMS ICP ICP ICP ICP ICP ICPIMS ICPIMS ICPIMS ICPIMS ICPIMS Digestion, ICP ICPIMS Digestion, ICPIMS Digestion, ICPIMS ICP	NPW08.03650 NPW08.03700 NPW08.03710 NPW08.03715 NPW08.03716 NPW08.03760 NPW08.03760 NPW08.03770 NPW08.03810 NPW08.03810 NPW08.03850	Yes	222222222222222222222222222222222222222	5/16/2003 7/1/2002 7/1/2017 7/1/2017 7/1/2004 7/1/2004 7/1/2004 7/1/2005 9/8/2016 7/1/2002 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017
Silver Sodium Thailum Thailum Thailum Thailum	NPW	Certified	SW-946 50208 EPA 200.9 SW-946 50108 SW-946 50100 SW-946 50100 EPA 200.7 SW-946 5020 SW-946 5020 SW-946 5020 SW-946 50208 EPA 200.7 SW-946 5010B SW-946 5010C	Digestion, ICPM/S ICP ICP ICP ICP ICP ICP ICP/M/S ICP/M/S ICP/M/S ICP/M/S Digestion, ICP/ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP	NPW08.03650 NPW08.03700 NPW08.03710 NPW08.03710 NPW08.03712 NPW08.03740 NPW08.03750 NPW08.03750 NPW08.03750 NPW08.03810 NPW08.03840 NPW08.03850 NPW08.03862 NPW08.03880 NPW08.03880 NPW08.03880 NPW08.03880 NPW08.03880 NPW08.03880 NPW08.03882 NPW08.03893 NPW08.03932 NPW08.03932 NPW08.03932	Yes	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5/16/2003 7/1/2002 7/1/2017 7/1/2017 7/1/202 7/1/2004 7/1/2004 7/1/2017 7/1/2005 9/8/2016 7/1/2002 7/1/2002 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017
Silver Sodium Todium Strontium Strontium Strontium Strontium Thailum Thailum Thailum Thailum	NPW	Certified	SW-946 50208  EPA 200.8  SW-946 5010B  SW-946 5010D  SW-946 5010D  EPA 200.7  SW-946 5020A  SW-946 5020A  SW-946 5020B  EPA 200.7  SW-946 5020B  EPA 200.8  EPA 200.8  EPA 200.8  SW-946 5010D  EWA 200.7  SW-946 5010D  SW-946 5010D  SW-946 5010D  EWA 200.7	Olgestion, ICPM/S ICP	NPW08.03650 NPW08.03700 NPW08.03710 NPW08.03716 NPW08.03760 NPW08.03760 NPW08.03760 NPW08.03760 NPW08.03772 NPW08.03810 NPW08.03860 NPW08.03860 NPW08.03862 NPW08.03862 NPW08.03863 NPW08.03890 NPW08.03890 NPW08.03890 NPW08.03930 NPW08.03930 NPW08.03930 NPW08.03930 NPW08.03930 NPW08.03930 NPW08.03930 NPW08.03930 NPW08.03930 NPW08.03930 NPW08.03930 NPW08.03930 NPW08.03930 NPW08.03930 NPW08.03930 NPW08.03930 NPW08.03930 NPW08.03930	Yes	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5H5/2003 7H1/2002 7H1/2002 7H1/2017 7H1/2004 7H1/2004 7H1/2004 7H1/2004 7H1/2004 7H1/2005 7H1/2002 7H1/2003 7H1/2003 7H1/2003
Silver Sodium Stronbium Stronbium Stronbium Stronbium Stronbium Thailium Thailium Thailium Thailium Thailium Thailium	NPW	Certified	SW-946 50208 EPA 200.9 SW-946 5010B SW-946 5010C SW-946 5010C EPA 200.7 SW-946 5020A SW-946 5020A SW-946 5020B EPA 200.7 SW-946 5020B SW-946 5020B SW-946 5020B SW-946 5020B SW-946 5020B SW-946 5010B SW-946 5010B SW-946 5010C SW-946 5010C SW-946 5010C SW-946 5020A SW-946 5020A SW-946 5020A SW-946 5020B SW-946 5010B SW-946 5020B SW-946 5020B SW-946 5010B SW-946 5010B SW-946 5010C SW-946 5020B	Digestion, ICPM/S ICP ICP ICP ICP ICP ICP/IMS ICP/IMS ICP/IMS ICP/IMS Digestion, ICP	NPW08.03650 NPW08.03700 NPW08.03710 NPW08.03715 NPW08.03715 NPW08.03750 NPW08.03750 NPW08.03750 NPW08.03750 NPW08.03850 NPW08.03850 NPW08.03850 NPW08.03850 NPW08.03850 NPW08.03850 NPW08.03850 NPW08.03850 NPW08.03850 NPW08.03850 NPW08.03850 NPW08.03850 NPW08.03850 NPW08.03850 NPW08.03850 NPW08.03850 NPW08.03850 NPW08.03850 NPW08.03850 NPW08.03950 NPW08.03950 NPW08.03950 NPW08.03950 NPW08.03950 NPW08.03950 NPW08.03950	Yes	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5H6,0003 7H12002 7H12002 7H12002 7H12004 7H12004 7H12004 7H12004 7H12006 7H12006 7H12005 7H12007 8H1312003 8H1312003
Silver Sodium Thailium Thailium Thailium Thailium Thailium Thailium Thailium	NPW	Certified	SW-946 50208 EPA 200.9 SW-946 60108 SW-946 60100 SW-946 60100 EPA 200.7 SW-946 5020 SW-946 50100	Olgeston, ICPAMS ICP	NPW08.03650 NPW08.03710 NPW08.03710 NPW08.03710 NPW08.03710 NPW08.03760 NPW08.03760 NPW08.03760 NPW08.03760 NPW08.03810 NPW08.03810 NPW08.03850 NPW08.03850 NPW08.03850 NPW08.03850 NPW08.03850 NPW08.03850 NPW08.03850 NPW08.03850 NPW08.03950 NPW08.03950 NPW08.03950 NPW08.03950 NPW08.03950 NPW08.03950 NPW08.03950 NPW08.03950 NPW08.03950 NPW08.03950 NPW08.03950 NPW08.03950 NPW08.03970 NPW08.	Yes	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5H5/2003 7H1/2002 7H1/2002 7H1/2001 7H1/2004 7H1/2004 7H1/2004 7H1/2004 7H1/2004 7H1/2005 7H1/2002 7H1/2002 7H1/2002 7H1/2002 7H1/2002 7H1/2002 7H1/2002 7H1/2003 8H3/2003 8H3/2003 7H1/2017 7H1/2017
Silver Sodium Thailium	NPW	Certified	SW-946 50208 EPA 200.9 SW-946 50108 SW-946 50100 SW-946 50100 EPA 200.7 SW-946 5020 SW-946 50100 SW-946 5020A	Digestion, ICPMS ICP ICP ICP ICP ICP ICP ICP ICPINS ICPINS ICPINS ICPINS ICICIA ICPINS ICICIA ICPINS ICICIA ICP	NPW08.03650 NPW08.03700 NPW08.03710 NPW08.03716 NPW08.03760 NPW08.03760 NPW08.03760 NPW08.03760 NPW08.03810 NPW08.03810 NPW08.03850	Yes	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5H5/2003 7H/2002 7H/2002 7H/2002 7H/2007
Silver Sodium Tonalium Thailum	NPW	Certified	SW-946 50208  EPA 200.8  SW-946 5010B  SW-946 5010C  SW-946 5010C  EPA 200.7  SW-946 5020A  SW-946 5020A  SW-946 5020A  SW-946 5020B  EPA 200.7  SW-946 5020B  EPA 200.7  SW-946 5010C  SW-946 5020A  SW-946 5010C  SW-946 5010C  SW-946 5020B  EPA 200.7	Olgestion, ICPAMS ICP	NPW08.03650 NPW08.03700 NPW08.03710 NPW08.03710 NPW08.03760 NPW08.03760 NPW08.03760 NPW08.03760 NPW08.03760 NPW08.03760 NPW08.03760 NPW08.03860	Yes	22 22 22 22 22 22 22 22 22 22 22 22 22	5H5/2003 7H1/2002 7H1/2002 7H1/2017 7H1/2003 7H1/2004 7H1/2004 7H1/2004 7H1/2004 7H1/2004 7H1/2004 7H1/2002 7H1/2002 7H1/2002 7H1/2002 7H1/2002 7H1/2003 7H1/2003 7H1/2004 7H1/2003 7H1/2007
Silver Sodium Strontium Strontium Strontium Strontium Strontium Thailium	NPW	Certified	SW-946 50208 EPA 200.9 SW-946 50108 SW-946 50100 SW-946 50100 EPA 200.7 SW-946 5020 SW-946 5020 SW-946 50208 EPA 200.8 EPA 200.7 SW-946 50208 SW-946 5010B SW-946 5010B SW-946 5010B SW-946 5010B SW-946 5010B SW-946 5010C SW-946 5010C SW-946 5020A SW-946 5020A SW-946 5020A SW-946 5020B EPA 200.7 SW-946 5020B EPA 200.7 SW-946 5020B EPA 200.7 SW-946 5020B EPA 200.8 SW-946 5020B EPA 200.8 SW-946 5020B EPA 200.8 SW-946 5020B SW-946 5020B SW-946 5010C SW-946 5020B SW-946 5010C SW-946 5020B	Digestion, ICPM/S ICP ICP ICP ICP ICP ICP ICP/MS ICP/MS ICP/MS ICP/MS Digestion, ICP	NPW08.03650 NPW08.03700 NPW08.03710 NPW08.03715 NPW08.03716 NPW08.03760 NPW08.03760 NPW08.03760 NPW08.03760 NPW08.03760 NPW08.03760 NPW08.03860 NPW08.03860 NPW08.03860 NPW08.03860 NPW08.03860 NPW08.03960	Yes	22222222222222222222222222222222222222	5H5/003 7/1/2002 7/1/2002 7/1/2002 7/1/2003 7/1/2004 7/1/2004 7/1/2004 7/1/2005 7/1/2005 7/1/2005 7/1/2007
Silver Sodium Thailium	NPW	Certified	SW-845 50208 EPA 200.9 SW-945 5010B SW-945 5010D EPA 200.7 SW-945 5020 SW-945 5020A SW-945 5020A SW-945 5020B EPA 200.7 SW-945 5020B EPA 200.7 SW-945 5010D SW-945 5010D SW-945 5010C SW-945 5010C SW-945 5010C SW-945 5010C SW-945 5020A SW-945 5010C SW-945 5010C SW-945 5020A SW-945 5020B EPA 200.3 SW-945 5010B	Digestion, ICPMS ICP ICP ICP ICP ICP ICP ICP ICP ICPINS ICPINS ICPINS ICPINS IDJESTION, ICP	NPW08.03650 NPW08.03710 NPW08.03710 NPW08.03710 NPW08.03710 NPW08.03760 NPW08.03760 NPW08.03760 NPW08.03760 NPW08.03760 NPW08.03760 NPW08.03860 NPW08.03860 NPW08.03862 NPW08.03862 NPW08.03860 NPW08.03862 NPW08.03862 NPW08.03862 NPW08.03862 NPW08.03862 NPW08.03950 NPW08.03950 NPW08.03950 NPW08.03950 NPW08.03950 NPW08.03950 NPW08.03950 NPW08.03950 NPW08.03961	Yes	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	\$H\$/003 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2003 7/1/2004 7/1/2004 7/1/2004 7/1/2007
Silver Sodium Thailum Tin	NPW   NPW	Certified	SW-946 50208 EPA 200.9 SW-946 5010B SW-946 5010C SW-946 5010C EPA 200.7 SW-946 5010C EPA 200.7 SW-946 5020A SW-946 5020A SW-946 5020B EPA 200.8 EPA 200.7 SW-946 5010B SW-946 5010B SW-946 5010C SW-946 5010C SW-946 5010C SW-946 5010C SW-946 5010C SW-946 5010C SW-946 5010B SW-946 5010D EPA 200.7	Digestion, ICPMS ICP ICP ICP ICP ICP ICP ICP ICPIMS ICPIMS ICPIMS ICPIMS ICIGNS Digestion, ICP	NPW08.03650 NPW08.03700 NPW08.03710 NPW08.03716 NPW08.03760 NPW08.03760 NPW08.03760 NPW08.03760 NPW08.03760 NPW08.03860	Yes	222222222222222222222222222222222222222	5H6.2003 7H12002 7H12002 7H12001 7H12004 7H12004 7H12004 7H12004 7H12004 7H12005 7H12005 7H12007
Silver Sodium Thailium	NPW	Certified	SW-946 50208 EPA 200.9 SW-946 50108 SW-946 50100 SW-946 50100 EPA 200.7 SW-946 5020 SW-946 50100 SW-946 50100 SW-946 50100 SW-946 50100 SW-946 50100 SW-946 5020A SW-946 5020A SW-946 5020A SW-946 5020A SW-946 5020B	Digestion, ICPAMS ICP ICP ICP ICP ICP ICP ICP ICP ICPAMS ICPIMS I	NPW08.03550 NPW08.03710 NPW08.03710 NPW08.03710 NPW08.03710 NPW08.03710 NPW08.03750 NPW08.03750 NPW08.03750 NPW08.03750 NPW08.03750 NPW08.03810 NPW08.03810 NPW08.03850 NPW08.03850 NPW08.03850 NPW08.03850 NPW08.03850 NPW08.03850 NPW08.03850 NPW08.03850 NPW08.03850 NPW08.03950	Yes	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	\$H\$\(\text{2003}\) \( 7\t1\t2003\) \( 7\t1\t2003\) \( 7\t1\t2003\) \( 7\t1\t2003\) \( 7\t1\t2003\) \( 7\t1\t2004\) \( 8\t1\t2003\) \( 8\t1\t2003\) \( 8\t1\t2003\) \( 8\t1\t2003\) \( 7\t1\t2004\)
Silver Sodium Thailum	NPW	Certified	SW-946 50208 EPA 200.9 SW-946 60108 SW-946 60100 SW-946 60100 EPA 200.7 SW-946 5020	Digestion, ICPM/S ICP	NPW08.03650 NPW08.03700 NPW08.03710 NPW08.03710 NPW08.03760 NPW08.03760 NPW08.03760 NPW08.03760 NPW08.03760 NPW08.03760 NPW08.03840 NPW08.03860 NPW08.03860 NPW08.03860 NPW08.03860 NPW08.03860 NPW08.03862	Yes	8	5H5/2003 7H1/2002 7H1/2007 7H1/2007 7H1/2007 7H1/2004 7H1/2004 7H1/2004 7H1/2004 7H1/2007
Silver Sodium Strontium Strontium Strontium Strontium Strontium Thailium	NPW	Certified	SW-946 50208 EPA 200.9 SW-946 50108 SW-946 50100 SW-946 50100 EPA 200.7 SW-946 50200 SW-946 50100 SW-946 50100 SW-946 50200	Olgeston, ICPAMS ICP ICP ICP ICP ICP ICP ICP ICP ICPAMS ICPIMS IC	NPW08.03650 NPW08.03710 NPW08.03710 NPW08.03710 NPW08.03710 NPW08.03710 NPW08.03750 NPW08.03750 NPW08.03750 NPW08.03750 NPW08.03750 NPW08.03810 NPW08.03810 NPW08.03850 NPW08.03950	Yes	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	\$H\$2003 7H2002 7H2002 7H2017 7H2002 7H2017 7H2004 7H2004 7H2005 \$I\$2016 7H2002 7H2002 7H2002 7H2002 7H2002 7H2002 7H2002 7H2002 7H2002 7H2002 7H2007
Silver Sodium Thailium	NPW	Certified	SW-946 50208 EPA 200.9 SW-946 5010B SW-946 5010C SW-946 5010C EPA 200.7 SW-946 5020 EPA 200.7 SW-946 5020B EPA 200.7 SW-946 5010C SW-946 5020B EPA 200.7 SW-946 5010C	Olgestion, ICPAMS ICP	NPW08.03650 NPW08.03700 NPW08.03710 NPW08.03710 NPW08.03710 NPW08.03760 NPW08.03760 NPW08.03760 NPW08.03760 NPW08.03760 NPW08.03760 NPW08.03600	Yes	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	\$H\$.0003 71/2002 71/2002 71/2007 71/2007 71/2004 71/2007 71/20
Silver Sodium Thailum	NPW	Certified	SW-946 50208 EPA 200.9 SW-946 5010B SW-946 5010C SW-946 5010C EPA 200.7 SW-946 5010C EPA 200.7 SW-946 5020B EPA 200.8 EPA 200.8 EPA 200.7 SW-946 5010B SW-946 5010B SW-946 5010B SW-946 5010B SW-946 5010B SW-946 5010C SW-946 5010B EPA 200.7 SW-946 5010B EPA 200.7 SW-946 5010B EPA 200.8 SW-946 5010B EPA 200.8	Digestion, ICPM/S ICP ICP ICP ICP ICP ICP ICP ICP/IMS ICP/IMS ICP/IMS Digestion, ICP	NPW08.03650 NPW08.03710 NPW08.03710 NPW08.03710 NPW08.03717 NPW08.03740 NPW08.03740 NPW08.03740 NPW08.03740 NPW08.03740 NPW08.03740 NPW08.03840 NPW08.03840 NPW08.03860 NPW08.03861	Yes	222222222222222222222222222222222222222	5H6,2003 7H12002 7H12001 7H12001 7H12001 7H12004 7H12004 7H12004 7H12004 7H12005 7H12002 7H12002 7H12002 7H12002 7H12003 8H32003 7H12001
Silver Sodium Thailium	NPW   NPW	Certified	SW-946 50208 EPA 200.9 SW-946 5010B SW-946 5010C SW-946 5010C EPA 200.7 SW-946 5020 EPA 200.7 SW-946 5020B EPA 200.7 SW-946 5010C SW-946 5020B EPA 200.7 SW-946 5010C	Olgestion, ICPAMS ICP	NPW08.03650 NPW08.03700 NPW08.03710 NPW08.03710 NPW08.03710 NPW08.03760 NPW08.03760 NPW08.03760 NPW08.03760 NPW08.03760 NPW08.03760 NPW08.03600	Yes	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	\$H\$.0003 71/2002 71/2002 71/2007 71/2007 71/2004 71/2007 71/20



Titanium	NPW	Certified	SW-846 6020A	ICP/MS	NPW08.04240	Yes	NJ	7/13/2017
Titanium	NPW	Certified	SW-846 6020B	ICP/MS	NPW08.04242	Yes	NJ	7/1/2017
Titanium	NPW	Certified	EPA 200.8	Digestion, ICP/MS	NPW08.04280	Yes	NJ	5/16/2003
Vanadium	NPW	Certified	SW-846 6010B	ICP	NPW08.04380	Yes	NJ	7/1/2002
Vanadium	NPW	Certified	SW-846 6010C	ICP	NPW08.04390	Yes	NJ	7/1/2002
Vanadium	NPW	Certified	SW-846 6010D	ICP	NPW08.04392	Yes	NJ	7/1/2017
Vanadium	NPW	Certified	EPA 200.7	Digestion, ICP	NPW08.04430	Yes	NJ	7/1/2002
Vanadium	NPW	Certified	SW-846 6020	ICP/MS	NPW08.04450	Yes	NJ	8/13/2003
Vanadium	NPW	Certified	SW-846 6020A	ICP/MS	NPW08.04460	Yes	NJ	8/13/2003
Vanadium	NPW	Certified	SW-846 6020B	ICP/MS	NPW08.04462	Yes	NJ	7/1/2017
Vanadium	NPW	Certified	EPA 200.8	Digestion, ICP/MS	NPW08.04510	Yes	NJ	5/16/2003
Zinc	NPW	Certified	SW-846 6010B	ICP	NPW08.04560	Yes	NJ	7/1/2002
Zinc	NPW	Certified	SW-846 6010C	ICP	NPW08.04570	Yes	NJ	7/1/2002
Zinc	NPW	Certified	SW-846 6010D	ICP	NPW08.04572	Yes	NJ	7/1/2017
Zinc	NPW	Certified	EPA 200.7	Digestion, ICP	NPW08.04610	Yes	NJ	7/1/2002
Zinc	NPW	Certified	SW-846 6020	ICP/MS	NPW08.04630	Yes	NJ	8/13/2003
Zinc	NPW	Certified	SW-846 6020A	ICP/MS	NPW08.04640	Yes	NJ	8/13/2003
Zinc	NPW	Certified	SW-846 6020B	ICP/MS	NPW08.04642	Yes	NJ	7/1/2017
Zinc	NPW	Certified	EPA 200.8	Digestion, ICP/MS	NPW08.04690	Yes	NJ	5/16/2003
Zirconium	NPW	Certified	SW-846 6010B	ICP	NPW08.04740	Yes	NJ	2/10/2017
Zirconium	NPW	Certified	SW-846 6010C	ICP	NPW08.04742	Yes	NJ	2/10/2017
Zirconium	NPW	Certified	SW-846 6010D	ICP	NPW08.04744	Yes	NJ	7/1/2017
Organics	NPW	Certified	SW-846 1312	Synthetic PPT Leachate Procedure	NPW09.00040	Yes	NJ	7/1/2002
Semivolatile organics	NPW	Certified	SW-846 1311	TCLP, Toxicity Procedure, Shaker	NPW09.00080	Yes	NJ	7/1/2002
Semivolatile organics	NPW	Certified	SW-846 3510C	Separatory Funnel Extraction	NPW09.00090	Yes	NJ	7/1/2002
Semivolatile organics	NPW	Certified	SW-846 3520C	Continuous Liquid-Liquid Extraction	NPW09.00110	Yes	NJ	7/1/2002
Volatile organics	NPW	Certified	SW-846 1311	TCLP, Toxicity Procedure, ZHE	NPW09.00290	Yes	NJ	7/1/2002
Volatile organics	NPW	Certified	SW-846 5030B	Purge & Trap Aqueous	NPW09.00330	Yes	NJ	7/1/2002
Volatie organics	NPW	Certified	8W-846 5030C	Purge & Trap Aqueous	NPW09.00340	Yes	NJ	7/1/2017
Acrolein	NPW	Certified	EPA 603	Purge & Trap, GC (FID)	NPW10.03010	Yes	NJ	7/1/2017
	NPW	Certified	EPA 603	Purge & Trap, GC (FID)	NPW10.03010	Yes	NJ	7/1/2004
Acrylonitrile Aldrin	NPW		EPA 608	Extract/GC (ECD)		Yes	NJ	7/1/2005
Aldrin Alpha BUC	NPW	Certified	EPA 608	Extract/GC (ECD)	NPW10.03360 NPW10.03370	Yes	NJ	
Alpha BHC Beta BHC	NPW	Certified Certified	EPA 608	Extract/GC (ECD)	NPW10.03370 NPW10.03380	Yes	NJ NJ	7/1/2002 7/1/2002
	NPW	Certified	EPA 608	Extract/GC (ECD)				7/1/2002
Chlordane (alpha) (cla-)	NPW	Certified	EPA 608	Extract/GC (ECD)	NPW10.03390 NPW10.03400	Yes Yes	NJ NJ	12/1/2002
Chiordane (alpha) (cls-)					NPW10.03400			
Chiordane (gamma) (trans-)	NPW	Certified	EPA 608	Extract/GC (ECD)		Yes	NJ	12/1/2006
DDD (4,4'-)	NPW	Certified	EPA 608	Extract/GC (ECD)	NPW10.03430	Yes	NJ	7/1/2002
DDE (4,4'-)	NPW	Certified	EPA 608	Extract/GC (ECD)	NPW10.03440	Yes	NJ	7/1/2002
DDT (4,4'-)	NPW	Certified	EPA 608	Extract/GC (ECD)	NPW10.03450	Yes	NJ	7/1/2002
Delta BHC	NPW	Certified	EPA 608	Extract/GC (ECD)	NPW10.03460	Yes	NJ	7/1/2002
Dieldrin	NPW	Certified	EPA 608	Extract/GC (ECD)	NPW10.03470	Yes	NJ	7/1/2002
Endosulfan I	NPW	Certified	EPA 608	Extract/GC (ECD)	NPW10.03480	Yes	NJ	7/1/2002
Endosulfan II	NPW	Certified	EPA 608	Extract/GC (ECD)	NPW10.03490	Yes	NJ	7/1/2002
Endosulfan sulfate	NPW	Certified	EPA 608	Extract/GC (ECD)	NPW10.03500	Yes	NJ	7/1/2002
Endrin	NPW	Certified	EPA 608	Extract/GC (ECD)	NPW10.03510	Yes	NJ	7/1/2002
Endrin aldehyde	NPW	Certified	EPA 608	Extract/GC (ECD)	NPW10.03520	Yes	NJ	7/1/2002
Endrin ketone	NPW	Certified	EPA 608	Extract/GC (ECD)	NPW10.03530	Yes	NJ	7/1/2002
Heptachior	NPW	Certified	EPA 608	Extract/GC (ECD)	NPW10.03550	Yes	NJ	7/1/2002
Heptachior epoxide	NPW	Certified	EPA 608	Extract/GC (ECD)	NPW10.03560	Yes	NJ	7/1/2002
Lindane (gamma BHC)	NPW	Certified	EPA 608	Extract/GC (ECD)	NPW10.03570	Yes	NJ	7/1/2002
PCB 1016	NPW	Certified	EPA 608	Extract/GC (ECD)	NPW10.03590	Yes	NJ	7/1/2002
PCB 1221	NPW	Certified	EPA 608	Extract/GC (ECD)	NPW10.03600	Yes	NJ	7/1/2002
PCB 1232	NPW	Certified	EPA 608	Extract/GC (ECD)	NPW10.03610	Yes	NJ	7/1/2002
PCB 1242	NPW	Certified	EPA 608	Extract/GC (ECD)	NPW10.03620	Yes	NJ	7/1/2002
PCB 1248	NPW	Certified	EPA 608	Extract/GC (ECD)	NPW10.03630	Yes	NJ	7/1/2002
PCB 1254	NPW	Certified	EPA 608	Extract/GC (ECD)	NPW10.03640	Yes	NJ	7/1/2002
PCB 1260	NPW	Certified	EPA 608	Extract/GC (ECD)	NPW10.03650	Yes	NJ	7/1/2002
Toxaphene	NPW	Certified	EPA 608	Extract/GC (ECD)	NPW10.03660	Yes	NJ	7/1/2002
Butane	NPW	Certified	Other J. Chrom. Sci. RSK-175	GC, Headspace, FID	NPW10.06000	Yes	NJ	9/8/2016
Ethane	NPW	Certified	Other J. Chrom. Sci. RSK-175	GC, Headspace, FID	NPW10.06010	Yes	NJ	7/1/2007
Ethene	NPW	Certified	Other J. Chrom. Sci. RSK-175	GC, Headspace, FID	NPW10.06020	Yes	NJ	7/1/2007
Methane	NPW	Certified	Other J. Chrom. Sci. RSK-175	GC. Headspace, FID	NPW10.06040	Yes	NJ	7/1/2007
Propane	NPW	Certified	Other J. Chrom. Sci. RSK-175	GC, Headspace, FID	NPW10.06050	Yes	NJ	7/1/2007
Extractable Petroleum	-						-	
Hydrocarbons	NPW	Certified	Other NJDEP EPH 10/08, Rev. 3	Extraction, GC, FID	NPW10.06060	Yes	NJ	8/27/2010
Petroleum Organics	NPW	Certified	Other NJ-OQA-QAM-025, Rev. 7	Extraction, GC, FID	NPW10.06070	Yes	NJ	3/19/2007
Dibromo-3-chioropropane (1,2-)	NPW	Certified	SW-846 8011	Microextraction, GC, ECD	NPW10.07680	Yes	NJ	8/13/2003
Dibromoethane (1,2-) (EDB)	NPW	Certified	SW-846 8011	Microextraction, GC, ECD	NPW10.07690	Yes	NJ	8/13/2003
Trichloropropane (1,2,3-)	NPW	Certified	SW-846 8011	Microextraction, GC, ECD	NPW10.07630	Yes	NJ	8/13/2003
Butanol (1-)	NPW	Certified	SW-846 8015B	GC, Direct Injection or P & T. FID	NPW10.07750	Yes	NJ	2/16/2011
	NPW		SW-846 8015B	Extraction, GC, FID	NPW10.07770	Yes	NJ	
Diesel range organic	NPW	Certified Certified		GC, Direct Injection or P & T, FID	NPW10.07770	Yes		7/1/2002
Ethyl alcohol Gasoline range organic		Certified	SW-846 8015B SW-846 8015B	GC P&T, FID	NPW10.07790		NJ NJ	7/1/2005 7/1/2002
Gasoline range organic Iso-butyl alcohol	NPW	Certified	SW-846 8015B	GC, Direct Injection or P & T, FID	NPW10.07830		NJ	7/1/2002
recrutity dicurrer		cerunea	SW-846 8015B SW-846 8015B				NJ NJ	7/1/2002
		Continue						77 172005
Isopropyl alcohol	NPW	Certified	011 0-0 00 100	GC, Direct injection or P & T, FID	NPW10.07840			0143/3003
Isopropyl alcohol Methyl alcohol (Methanol)	NPW	Certified	SW-846 8015B	GC, Direct injection or P & T, FID	NPW10.07850	Yes	NJ	8/13/2003
Isopropyl alcohol Methyl alcohol (Methanol) Propyl Alcohol (n-)	NPW NPW NPW	Certified Certified	SW-846 8015B SW-846 8015B	GC, Direct injection or P & T, FID GC, Direct injection or P & T, FID	NPW10.07850 NPW10.07910	Yes Yes	NJ NJ	2/16/2011
Isopropyl alcohol Methyl alcohol (Methanol) Propyl Alcohol (n-) Tert-butyl alcohol	NPW NPW NPW	Certified Certified Certified	SW-846 8015B SW-846 8015B SW-846 8015B	GC, Direct injection or P & T, FID GC, Direct injection or P & T, FID GC, Direct injection or P & T, FID	NPW10.07850 NPW10.07910 NPW10.07940	Yes Yes Yes	NJ NJ	2/16/2011 7/1/2002
Isopropyl alcohol Methyl alcohol (Methanol) Propyl Alcohol (n-) Tert-butyl alcohol Butanol (1-)	NPW NPW NPW NPW	Certified Certified Certified Certified	SW-845 8015B SW-845 8015B SW-845 8015B SW-845 8015B SW-845 8015C	GC, Direct injection or P & T, FID GC, Direct injection or P & T, FID GC, Direct injection or P & T, FID GC, Direct injection or P & T, FID	NPW10.07850 NPW10.07910 NPW10.07940 NPW10.08010	Yes Yes Yes Yes	NJ NJ NJ	2/16/2011 7/1/2002 2/16/2011
Isopropyl alcohol Methyl alcohol (Methanol) Propyl Alcohol (n-) Tert-butyl alcohol Butanol (1-) Diesei range organic	NPW NPW NPW NPW NPW	Certified Certified Certified Certified Certified	SW-946 8015B SW-946 8015B SW-946 8015B SW-946 8015C SW-946 8015C	GC, Direct Injection or P & T, FID GC, Direct Injection or P & T, FID GC, Direct Injection or P & T, FID GC, Direct Injection or P & T, FID Extraction, GC, FID	NPW10.07850 NPW10.07910 NPW10.07940 NPW10.08010 NPW10.08030	Yes Yes Yes Yes Yes	NJ NJ NJ NJ	2/16/2011 7/1/2002 2/16/2011 7/1/2002
Isopropyl alcohol Methyl alcohol (Methanol) Propyl Alcohol (m-) Tert-butyl alcohol Butanol (1-) Diesel range organic Ethyl alcohol	NPW NPW NPW NPW NPW NPW	Certified Certified Certified Certified Certified Certified	SW-945 80158 SW-945 80158 SW-945 80158 SW-945 8015C SW-945 8015C SW-945 8015C	GC, Direct injection or P & T, FID Extraction, GC, FID GC, Direct injection or P & T, FID	NPW10.07850 NPW10.07910 NPW10.07940 NPW10.08010 NPW10.08030 NPW10.08060	Yes Yes Yes Yes Yes Yes	N3 N3 N3 N3 N3 N3	2/16/2011 7/1/2002 2/16/2011 7/1/2002 7/1/2005
Isopropyl alcohol Methyl alcohol (Methanol) Propyl Alcohol (n-) Terl-butyl alcohol Butanol (1-) Diese range organic Ethyl alcohol Ethyl alcohol Ethylene glycol	NPW NPW NPW NPW NPW NPW NPW NPW	Certified Certified Certified Certified Certified Certified Applied	SW-846 8015B SW-846 8015B SW-846 8015B SW-846 8015C SW-846 8015C SW-846 8015C SW-846 8015C	GC, Direct injection or P & T, FID Extraction, GC, FID GC, Direct injection or P & T, FID GC, Direct injection or P & T, FID GC, Direct injection, FID	NPW10.07850 NPW10.07910 NPW10.07940 NPW10.08010 NPW10.08030 NPW10.08050 NPW10.08070	Yes Yes Yes Yes Yes Yes No	N3 N3 N3 N3 N3 N3 N3 N3	2/16/2011 7/1/2002 2/16/2011 7/1/2002 7/1/2005 10/7/2014
Isopropyl alcohol Methyl alcohol (Methanol) Propyl Alcohol (m-) Tert-butyl alcohol Butanol (1-) Diesel range organic Ethyl alcohol	NPW NPW NPW NPW NPW NPW NPW NPW	Certified Certified Certified Certified Certified Certified Applied Certified	SW-845 80158 SW-845 80158 SW-845 80158 SW-845 8015C SW-845 8015C SW-845 8015C SW-845 8015C SW-845 8015C	GC, Direct Injection or P & T, FID Extraction, GC, FID GC, Direct Injection or P & T, FID GC, Direct Injection or P & T, FID GC, Direct Injection, FID GC, PAT, FID	NPW10.07850 NPW10.07910 NPW10.07940 NPW10.08010 NPW10.08030 NPW10.08050 NPW10.08070 NPW10.08100	Yes	22 22 22 22 22 22 22 22 22 22 22 22 22	2/16/2011 7/1/2002 2/16/2011 7/1/2002 7/1/2005 10/7/2014 7/1/2002
Isopropyl alcohol Methyl alcohol (Methanol) Propyl Alcohol (n-) Tert-buyl alcohol Butanol (1-) Diesel range organic Ethyl alcohol Ethylene glycol Gasoline range organic Iso-buyl alcohol	NPW NPW NPW NPW NPW NPW NPW NPW NPW	Certified Certified Certified Certified Certified Certified Applied Certified Certified	SW-946 8015B SW-946 8015B SW-946 8015B SW-946 8015C SW-946 8015C SW-946 8015C SW-946 8015C SW-946 8015C SW-946 8015C	GC, Direct injection or P & T, FID Extraction, GC, FID GC, Direct injection or P & T, FID GC, Direct injection, FID GC, Direct injection, FID GC, P&T, FID GC, Direct injection or P & T, FID GC, Direct injection or P & T, FID	NPW10.07850 NPW10.07910 NPW10.07940 NPW10.08010 NPW10.08050 NPW10.08070 NPW10.08070 NPW10.08170 NPW10.08170	Yes Yes Yes Yes Yes Yes Yes Yes No Yes Yes	22 22 22 22 22 22 22 22 22 22 22 22 22	2/16/2011 7/1/2002 2/16/2011 7/1/2002 7/1/2005 10/7/2014 7/1/2002 7/1/2002
Isopropyi alcohol Methyl alcohol (Methanol) Propyi Alcohol (Methanol) Terbayti alcohol Butanol (1-) Diesel range organic Ethyl alcohol Ethylene glycol Gasoline range organic Iso-butyl alcohol Iso-butyl alcohol Iso-potyl alcohol	NPW NPW NPW NPW NPW NPW NPW NPW NPW	Certified Certified Certified Certified Certified Certified Applied Certified Certified Certified Certified	SW-946 8015B SW-946 8015B SW-946 8015B SW-946 8015C SW-946 8015C SW-946 8015C SW-946 8015C SW-946 8015C SW-946 8015C	GC, Direct injection or P & T, FID Extraction, GC, FID GC, Direct injection or P & T, FID GC, Direct injection or P & T, FID GC, Direct injection, FID GC, Direct injection or P & T, FID	NPW10.07850 NPW10.07910 NPW10.07910 NPW10.08010 NPW10.08030 NPW10.08050 NPW10.08070 NPW10.08120 NPW10.08120 NPW10.08130	Yes	22 22 22 22 22 22 22 22 22 22 22 22 22	2/16/2011 7/1/2002 2/16/2011 7/1/2002 7/1/2005 10/7/2014 7/1/2002 7/1/2002 7/1/2005
Isopropyl alcohol Methyl alcohol (Methanol) Propyl Alcohol (n-) Tert-buyl alcohol Butanol (1-) Diesel range organic Ethyl alcohol Ethylene glycol Gasoline range organic Iso-buyl alcohol	NPW NPW NPW NPW NPW NPW NPW NPW NPW NPW	Certified Certified Certified Certified Certified Certified Certified Applied Certified Certified Certified Certified Certified Certified Certified	SW-946 8015B SW-946 8015B SW-946 8015B SW-946 8015C SW-946 8015C SW-946 8015C SW-946 8015C SW-946 8015C SW-946 8015C SW-946 8015C SW-946 8015C	GC, Direct injection or P & T, FID Extraction, GC, FID GC, Direct injection or P & T, FID GC, Direct injection, FID GC, Direct injection, FID GC, Direct injection or P & T, FID	NPW10.07850 NPW10.07910 NPW10.07910 NPW10.08010 NPW10.08030 NPW10.08050 NPW10.08070 NPW10.08120 NPW10.08130 NPW10.08130 NPW10.08130	Yes Yes Yes Yes Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2/16/2011 7/1/2002 2/16/2011 7/1/2002 7/1/2005 10/7/2014 7/1/2002 7/1/2002 7/1/2005 8/13/2003
Isopropyl alcohol Methyl alcohol (Methanol) Propyl Alcohol (Methanol) Terf-butyl alcohol Butanol (1-) Diesel range organic Bityl alcohol Ethylene glycol Gasoline range organic Iso-butyl alcohol Iso-butyl alcohol	NPW NPW NPW NPW NPW NPW NPW NPW NPW	Certified Certified Certified Certified Certified Certified Applied Certified Certified Certified Certified	SW-946 8015B SW-946 8015B SW-946 8015B SW-946 8015C SW-946 8015C SW-946 8015C SW-946 8015C SW-946 8015C SW-946 8015C	GC, Direct injection or P & T, FID Extraction, GC, FID GC, Direct injection or P & T, FID GC, Direct injection or P & T, FID GC, Direct injection, FID GC, Direct injection or P & T, FID	NPW10.07850 NPW10.07910 NPW10.07910 NPW10.08010 NPW10.08030 NPW10.08050 NPW10.08070 NPW10.08120 NPW10.08120 NPW10.08130	Yes Yes Yes Yes Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes	22 22 22 22 22 22 22 22 22 22 22 22 22	2/16/2011 7/1/2002 2/16/2011 7/1/2002 7/1/2005 10/7/2014 7/1/2002 7/1/2002 7/1/2005
Isopropyl alcohol Methyl alcohol (Methanol) Propyl Alcohol (Methanol) Propyl Alcohol (Ir-) Tert-butyl alcohol Butanol (Ir-) Diesel range organic Ethyl alcohol Ethylene glycol Gasoline range organic Iso-butyl alcohol Isopropyl alcohol Methyl alcohol (Methanol)	NPW NPW NPW NPW NPW NPW NPW NPW NPW NPW	Certified Certified Certified Certified Certified Certified Certified Applied Certified Certified Certified Certified Certified Certified Certified	SW-946 8015B SW-946 8015B SW-946 8015B SW-946 8015C SW-946 8015C SW-946 8015C SW-946 8015C SW-946 8015C SW-946 8015C SW-946 8015C SW-946 8015C	GC, Direct injection or P & T, FID Extraction, GC, FID GC, Direct injection or P & T, FID GC, Direct injection, FID GC, Direct injection, FID GC, Direct injection or P & T, FID	NPW10.07850 NPW10.07910 NPW10.07910 NPW10.08010 NPW10.08030 NPW10.08050 NPW10.08070 NPW10.08120 NPW10.08130 NPW10.08130 NPW10.08130	Yes Yes Yes Yes Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2/16/2011 7/1/2002 2/16/2011 7/1/2002 7/1/2005 10/7/2014 7/1/2002 7/1/2002 7/1/2005 8/13/2003
Isopropyl alcohol Methyl alcohol (Methanol) Propyl Alcohol (n-) Tert-butyl alcohol Butanol (1-) Diesel range organic Ethyl alcohol Ethylene glycol Gasoline range organic Iso-butyl alcohol Isopropyl alcohol Methyl alcohol (Methanol) Propyl Alcohol (Methanol)	NPW	Certified Certified Certified Certified Certified Certified Certified Applied Certified Certified Certified Certified Certified Certified Certified Certified Certified	SW-946 8015B SW-946 8015B SW-946 8015B SW-946 8015C SW-946 8015C	GC, Direct injection or P & T, FID GC, Direct injection, FID GC, Direct injection or P & T, FID	NPW10.07850 NPW10.07910 NPW10.07910 NPW10.08010 NPW10.08030 NPW10.08050 NPW10.08100 NPW10.08120 NPW10.08130 NPW10.08130 NPW10.08140 NPW10.08140	Yes	N3 N3 N3 N3 N3 N3 N3 N3 N3 N3 N3 N3 N3 N	2/16/2011 7/1/2002 2/16/2011 7/1/2002 7/1/2005 10/7/2014 7/1/2002 7/1/2002 7/1/2002 8/13/2003 2/16/2011
Isopropyl alcohol Methyl alcohol (Methanol) Propyl Alcohol (Methanol) Propyl Alcohol (In-) Terf-butyl alcohol Butanol (1-) Dilesel range organic Ethyle alcohol Ethyle alcohol Ethylene glycol Gasoline range organic Iso-butyl alcohol Iso-butyl alcohol Iso-butyl alcohol Methyl alcohol (Methanol) Propyl Alcohol (Methanol) Propyl Alcohol (In-) Propylene glycol	NPW	Certified Certified Certified Certified Certified Certified Certified Applied Certified	SW-946 80158 SW-946 80158 SW-946 80158 SW-946 8015C SW-946 8015C SW-946 8015C SW-946 8015C SW-946 8015C SW-946 8015C SW-946 8015C SW-946 8015C SW-946 8015C SW-946 8015C	GC, Direct Injection or P & T, FID GC, Direct Injection, FID	NPW10.07850 NPW10.07940 NPW10.07940 NPW10.08010 NPW10.08030 NPW10.08050 NPW10.08120 NPW10.08120 NPW10.08130 NPW10.08130 NPW10.08140 NPW10.08140 NPW10.08210	Yes	222222222222222222222222222222222222222	2/16/2011 7/1/2002 2/16/2011 7/1/2005 10/7/2014 7/1/2005 10/7/2014 7/1/2002 7/1/2002 7/1/2003 2/16/2011 10/7/2014
Isopropyl alcohol Methyl alcohol (Methanol) Propyl Alcohol (n-) Tert-butyl alcohol Butanol (1-) Diesel range organic Ethyl alcohol Ethylene glycol Gasoline range organic Isopropyl alcohol Isopropyl alcohol Methyl alcohol (n-) Propyl Alcohol (n-) Propyl Alcohol (n-) Propylene glycol Tert-butyl alcohol	NPW	Certified Certified Certified Certified Certified Certified Certified Applied Certified Applied Certified	SW-946 8015B SW-946 8015B SW-946 8015B SW-946 8015C SW-946 8015C	GC, Direct injection or P & T, FID Extraction, GC, FID GC, Direct injection or P & T, FID	NPW10.07850 NPW10.07910 NPW10.07940 NPW10.08010 NPW10.08050 NPW10.08050 NPW10.08100 NPW10.08130 NPW10.08130 NPW10.08130 NPW10.08130 NPW10.08210 NPW10.08210 NPW10.08210 NPW10.08220 NPW10.08260	Yes	N3 N	2/16/2011 7/1/2002 2/16/2011 7/1/2002 7/1/2005 10/7/2014 7/1/2002 7/1/2002 7/1/2003 2/16/2011 10/7/2014 7/1/2002
Isopropyl alcohol Methyl alcohol (Methanol) Propyl Alcohol (Methanol) Terf-butyl alcohol Butanol (1-1) Diesel range organic Ethyl alcohol Ethyle alcohol Iso-butyl alcohol Iso-butyl alcohol Methyl alcohol (Methanol) Propyl Alcohol (methanol) Fropylene glycol Terf-butyl alcohol Butanol (1-1)	NPW	Certified Certified Certified Certified Certified Certified Applied Certified	SW-946 8015B SW-946 8015B SW-946 8015B SW-946 8015C SW-946 8015C	GC, Direct injection or P & T, FID	NPW10.07850 NPW10.07910 NPW10.07940 NPW10.08010 NPW10.08030 NPW10.08050 NPW10.08120 NPW10.08120 NPW10.08130 NPW10.08130 NPW10.08140 NPW10.08140 NPW10.08210 NPW10.08210 NPW10.08210 NPW10.08210 NPW10.08230 NPW10.08230	Yes Yes Yes Yes Yes No Yes No Yes Yes No Yes	N3 N	2/16/2011 7H/2002 2/16/2011 7H/2005 10/7/2014 7H/2002 7H/2002 7H/2002 7H/2002 2/16/2011 10/7/2014 7H/2012 7H/2017



Sender Sender   Sen									
Seeges   S	Gasoline range organic	NPW	Certified	SW-846 8015D	GC P&T, FID	NPW10.08440	Yes	NJ	7/1/2017
Memp accord   Memp   Confident   Confide	Iso-butyl alcohol	NPW	Certified	SW-846 8015D	GC, Direct injection or P & T, FID	NPW10.08460	Yes	NJ	7/1/2017
They Access on 1970 Centres	Isopropyl alcohol	NPW	Certified	SW-846 8015D	GC, Direct injection or P & T, FID	NPW10.08470	Yes	NJ	7/1/2017
Technology (1997) Centres	Methyl alcohol (Methanol)	NPW	Certified	SW-846 8015D	GC, Direct Injection or P & T, FID	NPW10.08480	Yes	NJ	7/1/2017
Ages 1600	Propyl Alcohol (n-)	NPW	Certified	SW-846 8015D	GC, Direct Injection or P & T, FID	NPW10.08550	Yes	NJ	7/1/2017
Author Service   1997   Centrice   2004-44 (2014.   30 C. Earselon, ECO PHECE COREST), WINTENSEN   Vest   10   710    Barrier Service   1997	Tert-butyl alcohol			SW-846 8015D			Yes	NJ	7/1/2017
Seign Bird. (1971)  Well Certified (1974)  We							Yes	NJ	7/1/2002
Screense gaptan (sep)  WPV Centres (Septimal Septimal Sep									7/1/2002
Command (permis)   Part   Certified   (Visited (1974-14) (1974-1									7/1/2002
Specimen   Service   Phys.   Cereffee   199444   1991.   Get Service   Get President   Get P									7/1/2002
DODIAL									7/1/2002
DOC   LA									7/1/2002
Description									7/1/2002
Detail Series									7/1/2002
Deptin									7/1/2002
Recounter   NPW centres   Publish Solit   O.C. Effection   COO Publish Solit   Vest   N.   7115   Publish Solit   Publish Solit   Vest   N.   7115   Publish Solit   Publish Solit   Vest   V	Delta BHC				GC, Extraction, ECD or HECD, Capillary				7/1/2002
Production	Dieldrin					NPW10.09650			7/1/2002
Procedure   NPW				SW-846 8081A					7/1/2002
Brown acetype	Endosulfan II		Certified	SW-846 8081A					7/1/2002
Storm antique	Endosulfan sulfate								7/1/2002
Event network									7/1/2002
Hestachter   NPPA   Certifies   NPA-68 (581 A   O.C. Elización, EGO PIECC, Capillary   NPA-10 (577) (** N					GC, Extraction, ECD or HECD, Capillary		Yes		7/1/2002
Negacion position   NPV   Certified   SW444 (SB14   C. Electricin, ECO PHECE, Capillary   New 10 2977)   Ves   NJ   7717   Ves   NJ   77	Endrin ketone	NPW	Certified	SW-846 8081A		NPW10.09710	Yes	NJ	7/1/2002
Lindance (gamma BH-C)  NPW Certified (Wi-Mail 8014 A)  OC. Elevation, ECO PHECC. Capillary (New York 1977) (Ves NJ 7717)  METER  NPW Certified (Wi-Mail 8014 A)  OC. Elevation, ECO PHECC. Capillary (New York 1977) (Ves NJ 7717)  METER  NPW Certified (Wi-Mail 8014 A)  OC. Elevation, ECO PHECC. Capillary (New York 1977) (Ves NJ 7717)  New York (Wi-Mail 8014 A)  Alaction (NPW Certified (Wi-Mail 8014 A)  OC. Elevation, ECO PHECC. Capillary (New York 1977) (Ves NJ 4717)  Naction (NPW Certified (Wi-Mail 8018 B)  OC. Elevation, ECO PHECC. Capillary (New York 1977) (Ves NJ 4717)  Alaction (NPW Certified (Wi-Mail 8018 B)  OC. Elevation, ECO PHECC. Capillary (New York 1977) (Ves NJ 4717) (V	Heptachior	NPW	Certified	SW-846 8081A	GC, Extraction, ECD or HECD, Capillary	NPW10.09730	Yes		7/1/2002
Lindance (gamma BH-C)  NPW Certified (Wi-Mail 8014 A)  OC. Elevation, ECO PHECC. Capillary (New York 1977) (Ves NJ 7717)  METER  NPW Certified (Wi-Mail 8014 A)  OC. Elevation, ECO PHECC. Capillary (New York 1977) (Ves NJ 7717)  METER  NPW Certified (Wi-Mail 8014 A)  OC. Elevation, ECO PHECC. Capillary (New York 1977) (Ves NJ 7717)  New York (Wi-Mail 8014 A)  Alaction (NPW Certified (Wi-Mail 8014 A)  OC. Elevation, ECO PHECC. Capillary (New York 1977) (Ves NJ 4717)  Naction (NPW Certified (Wi-Mail 8018 B)  OC. Elevation, ECO PHECC. Capillary (New York 1977) (Ves NJ 4717)  Alaction (NPW Certified (Wi-Mail 8018 B)  OC. Elevation, ECO PHECC. Capillary (New York 1977) (Ves NJ 4717) (V	Heptachior epoxide							NJ	7/1/2002
Methodystrick   NPW   Certified   SW-644 808 IA   O.C. EFERSION, EGG OF HECC, Capillary   NPW   CEPTED   NJ   472   172   172   172   173   17	Lindane (gamma BHC)			SW-846 8081A			Yes		7/1/2002
Mers NPW Certified (Wi-44 St814 N. OS. Estadon, EGO OF HECC, Capillary (NPW) 128110 (Yes N.) 4/22 (Natural Control Con	Methoxychior	NPW	Certified	SW-846 8081A	GC, Extraction, ECD or HECD, Capillary	NPW10.09780	Yes	NJ	7/1/2002
Teagement NPW Apolled Silv-446 80818 OC, Estraction, ECO Priettic, Capillary, NPW10 8980 Yes, NJ 7112 Abscriver NPW Apolled Silv-446 80818 OC, Estraction, ECO Priettic, Capillary, NPW10 8981 No NJ 7112 Abscriver NPW Apolled Silv-446 80818 OC, Estraction, ECO Priettic, Capillary, NPW10 89817 No NJ 7112 Abscriver NPW Centred NPW Centred Silv-446 80818 OC, Estraction, ECO Priettic, Capillary, NPW10 89817 No NJ 7112 Chromate (apolled Silv-446 80818 OC, Estraction, ECO Priettic, Capillary, NPW10 89817 No NJ 7112 Chromate (apolled Silv-446 80818 OC, Estraction, ECO Priettic, Capillary, NPW10 89917 No NJ 7112 Chromate (apolled Silv-446 80818 OC, Estraction, ECO Priettic, Capillary, NPW10 89917 No NJ 7112 Chromate (apolled Silv-446 80818 OC, Estraction, ECO Priettic, Capillary, NPW10 89917 No NJ 7112 Chromate (apolled Silv-446 80818 OC, Estraction, ECO Priettic, Capillary, NPW10 89917 No NJ 7112 Chromate (apolled Silv-446 80818 OC, Estraction, ECO Priettic, Capillary, NPW10 89917 No NJ 7112 Chromate (apolled Silv-448 80818 OC, Estraction, ECO Priettic, Capillary, NPW10 89917 No NJ 7112 Chromate (apolled Silv-448 80818 OC, Estraction, ECO Priettic, Capillary, NPW10 89917 No NJ 7112 Chromate (apolled Silv-448 80818 OC, Estraction, ECO Priettic, Capillary, NPW10 89917 No NJ 7112 Chromate (apolled Silv-448 80818 OC, Estraction, ECO Priettic, Capillary, NPW10 89917 No NJ 7112 Chromate (apolled Silv-448 80818 OC, Estraction, ECO Priettic, Capillary, NPW10 89917 No NJ 7112 Chromate (apolled Silv-448 80818 OC, Estraction, ECO Priettic, Capillary, NPW10 89917 No NJ 7112 Chromate (apolled Silv-448 80818 OC, Estraction, ECO Priettic, Capillary, NPW10 89917 No NJ 7112 Chromate (apolled Silv-448 80818 OC, Estraction, ECO Priettic, Capillary, NPW10 89917 No NJ 7112 Chromate (apolled Silv-448 80818 OC, Estraction, ECO Priettic, Capillary, NPW10 89917 No NJ 7112 Chromate (apolled Silv-448 80818 OC, Estraction, ECO Priettic, Capillary, NPW10 89917 No NJ 7112 Chromate (apolled Silv-448 80818 OC, Estraction, ECO Priettic, Capillary, NPW1	Mirex	NPW	Certified	SW-846 8081A	GC, Extraction, ECD or HECD, Capillary	NPW10.09810	Yes	NJ	4/3/2008
Aschord   NPW   Applied   SIV-446 80918   O.C. Extraction, ECO PHENCE, Casillary, PhYIVIG 89870   No NJ 7112   Addroin   NPW   Centres   SIV-446 80918   O.C. Extraction, ECO PHENCE, Casillary, PhYIVIG 89870   No NJ 7112   Addroin   Applied   SIV-446 80918   O.C. Extraction, ECO PHENCE, Casillary, PhYIVIG 8980   Ves NJ 7112   Addroin   Applied   SIV-446 80918   O.C. Extraction, ECO PHENCE, Casillary, PhYIVIG 8980   Ves NJ 7112   Applied   Ap		NPW	Certified	SW-846 8081A		NPW10.09850	Yes		7/1/2002
Aschor   NPW   Centred   NPW   Centred   Centred   NPW   Cen									7/1/2017
April Martin  NPW Centres  Overlage (Verlage Street)  NPW Centres  Overlage (Verlage S									7/1/2017
Agenta BHC		NPW					Yes		7/1/2002
Seta SHC  NPW   Ortfries   SW-948 80918   OC, Extraction, ECO OF HECO, Casilary   NPW10 19910   Yes   NJ   7712   Ortorane (gamma) (branc)   NPW   Ortfries   SW-948 80918   OC, Extraction, ECO OF HECO, Casilary   NPW10 19930   Yes   NJ   7712   Ortorane (gamma) (branc)   NPW   Ortfries   SW-948 80918   OC, Extraction, ECO OF HECO, Casilary   NPW10 19930   Yes   NJ   7712   Yes		NPW					Yes		7/1/2002
Chordrane (aphano) (cir-)  NPW Certified  Works (2018)  Oc. Extraction, ECO or NECO, Capillary NPW10 199930 Ves NJ 7712  Chordrane (plannical)  NPW Certified  Works (2014)  NPW Certified  Wo	Beta BHC	NPW					Yes		7/1/2002
Chordrane (parms) (Partie)  NPW Certified  West State   St. Charles   St			Certified				Yes		7/1/2002
Chordane (Richmical)   NPW   Certified   SW-948 80818   OC, Exhauton, ECO or HECO, Casilary, NPW10 109940   Yes   NJ   7712   The Common Control of the									7/1/2002
DOD (1,4-)		NPW	Certified	SW-846 8081B		NPW10.09940			7/1/2002
DOBE (1.4.1-)									7/1/2002
DOT (14-1)   NPW   Certified   SW-94-8 (08)   B   SQ, Extraction, ECO or HECO, Copiliary   NPW10-10030   Yes   NJ   71/12   Design   NPW   Certified   SW-94-8 (08)   B   SQ, Extraction, ECO or HECO, Copiliary   NPW10-10050   Yes   NJ   71/12   Design   NPW   Certified   SW-94-8 (08)   B   SQ, Extraction, ECO or HECO, Copiliary   NPW10-10050   Yes   NJ   71/12   Endocurban   NPW   Certified   SW-94-8 (08)   B   SQ, Extraction, ECO or HECO, Copiliary   NPW10-10050   Yes   NJ   71/12   Endocurban surface   NPW   Certified   SW-94-8 (08)   B   SQ, Extraction, ECO or HECO, Copiliary   NPW10-10050   Yes   NJ   71/12   Endocurban surface   NPW   Certified   SW-94-8 (08)   B   SQ, Extraction, ECO or HECO, Copiliary   NPW10-10050   Yes   NJ   71/12   Endocurban surface   NPW   Certified   SW-94-8 (08)   B   SQ, Extraction, ECO or HECO, Copiliary   NPW10-10050   Yes   NJ   71/12   Endocurban surface   NPW   Certified   SW-94-8 (08)   B   SQ, Extraction, ECO or HECO, Copiliary   NPW10-10050   Yes   NJ   71/12   Hotaschor   NPW   Certified   SW-94-8 (08)   B   SQ, Extraction, ECO or HECO, Copiliary   NPW10-10150   Yes   NJ   71/12   Hetaschor   NPW   Certified   SW-94-8 (08)   B   SQ, Extraction, ECO or HECO, Copiliary   NPW10-10150   Yes   NJ   71/12   Hetaschor   NPW   Certified   SW-94-8 (08)   B   SQ, Extraction, ECO or HECO, Copiliary   NPW10-10150   Yes   NJ   71/12   Hetaschor   NPW   Certified   SW-94-8 (08)   B   SQ, Extraction, ECO or HECO, Copiliary   NPW10-10150   Yes   NJ   71/12   Hetaschor   NPW   Certified   SW-94-8 (08)   B   SQ, Extraction, ECO or HECO, Copiliary   NPW10-10150   Yes   NJ   71/12   Hetaschororic   NPW   Certified   SW-94-8 (08)   B   SQ, Extraction, ECO or HECO, Copiliary   NPW10-10150   Yes   NJ   71/12   Hetaschororic   NPW   Certified   SW-94-8 (08)   B   SQ, Extraction, ECO or HECO, Copiliary   NPW10-10150   Yes   NJ   71/12   Hetaschororic   NPW   Certified   SW-94-8 (08)   B   SQ, Extraction, ECO or HECO, Copiliary   NPW10-10150   Yes   NJ   71/12   Hetaschororic   NPW   Certified									7/1/2002
Deta BHC NPW Centree									7/1/2002
Deletin   NPW   Certified   SIV-948 8081B   S.C., Extraction, ECO or HECO, Capillary   NPW10 10080   Yes   NJ   7/12   Endocutina   NPW   Certified   SIV-948 8081B   S.C., Extraction, ECO or HECO, Capillary   NPW10 10080   Yes   NJ   7/12   Endocutina rultar   NPW   Certified   SIV-948 8081B   S.C., Extraction, ECO or HECO, Capillary   NPW10 10080   Yes   NJ   7/12   Endocutina rultar   NPW   Certified   SIV-948 8081B   S.C., Extraction, ECO or HECO, Capillary   NPW10 10080   Yes   NJ   7/12   Endorn activity   NPW   Certified   SIV-948 8081B   S.C., Extraction, ECO or HECO, Capillary   NPW10 10080   Yes   NJ   7/12   Endorn activity   NPW   Certified   SIV-948 8081B   S.C., Extraction, ECO or HECO, Capillary   NPW10 10080   Yes   NJ   7/12   Highschier   NPW   Certified   SIV-948 8081B   S.C., Extraction, ECO or HECO, Capillary   NPW10 10180   Yes   NJ   7/12   Highschier   NPW   Certified   SIV-948 8081B   S.C., Extraction, ECO or HECO, Capillary   NPW10 10180   Yes   NJ   7/12   Highschier   NPW   Certified   SIV-948 8081B   S.C., Extraction, ECO or HECO, Capillary   NPW10 10180   Yes   NJ   7/12   Highschier   NPW   Certified   SIV-948 8081B   S.C., Extraction, ECO or HECO, Capillary   NPW10 10180   Yes   NJ   7/12   Highschier   NPW   Certified   SIV-948 8081B   S.C., Extraction, ECO or HECO, Capillary   NPW10 10180   Yes   NJ   7/12   Hetachorizotextenne   NPW   Certified   SIV-948 8081B   S.C., Extraction, ECO or HECO, Capillary   NPW10 10180   Yes   NJ   7/12   Hetachorizotextenne   NPW   Certified   SIV-948 8081B   S.C., Extraction, ECO or HECO, Capillary   NPW10 10180   Yes   NJ   7/12   Hetachorizotextenne   NPW   Certified   SIV-948 8081B   S.C., Extraction, ECO or HECO, Capillary   NPW10 10180   Yes   NJ   7/12   Hetachorizotextenne   NPW   Certified   SIV-948 8081B   S.C., Extraction, ECO or HECO, Capillary   NPW10 10180   Yes   NJ   7/12   Hetachorizotextenne   NPW   Certified   SIV-948 8081B   S.C., Extraction, ECO or HECO, Capillary   NPW10 10180   Yes   NJ   7/12   Hetachorizotextenne   NPW									7/1/2002
Endoughan I NPW Certified SIV-948 50918 G.C. Extraction, ECO or HECO, Capillary NPW10 10070 Vers NJ 7/12 Endoughan surface NPW Certified SIV-948 50918 G.C. Extraction, ECO or HECO, Capillary NPW10 10070 Vers NJ 7/12 Endoughan surface NPW Certified SIV-948 50918 G.C. Extraction, ECO or HECO, Capillary NPW10 10090 Vers NJ 7/12 Endoughan surface NPW Certified SIV-948 50918 G.C. Extraction, ECO or HECO, Capillary NPW10 10090 Vers NJ 7/12 Endoughan surface NPW Certified SIV-948 50918 G.C. Extraction, ECO or HECO, Capillary NPW10 101010 Vers NJ 7/12 Hospital SIV-948 50918 G.C. Extraction, ECO or HECO, Capillary NPW10 101010 Vers NJ 7/12 Hestachior Composition of NPW Certified SIV-948 50918 G.C. Extraction, ECO or HECO, Capillary NPW10 101010 Vers NJ 7/12 Hestachior Composition NPW Certified SIV-948 50918 G.C. Extraction, ECO or HECO, Capillary NPW10 101010 Vers NJ 7/12 Hestachior Composition NPW Certified SIV-948 50918 G.C. Extraction, ECO or HECO, Capillary NPW10 101010 Vers NJ 7/12 Hestachior Composition NPW Certified SIV-948 50918 G.C. Extraction, ECO or HECO, Capillary NPW10 101010 Vers NJ 7/12 Hestachior Composition NPW Certified SIV-948 50918 G.C. Extraction, ECO or HECO, Capillary NPW10 101010 Vers NJ 7/12 Hestachior Composition NPW Certified SIV-948 50918 G.C. Extraction, ECO or HECO, Capillary NPW10 101010 Vers NJ 7/12 Hestachior Composition NPW Certified SIV-948 50918 G.C. Extraction, ECO or HECO, Capillary NPW10 101010 Vers NJ 7/12 Hestachior Composition NPW Certified SIV-948 50918 G.C. Extraction, ECO or HECO, Capillary NPW10 101010 Vers NJ 7/12 Hestachior Composition NPW Certified SIV-948 50918 G.C. Extraction, ECO or HECO, Capillary NPW10 101010 Vers NJ 7/12 Hestachior Composition NPW Certified SIV-948 50912 G.C. Extraction, ECO or HECO, Capillary NPW10 10500 Vers NJ 7/12 Hestachior Composition NPW Certified SIV-948 50912 G.C. Extraction, ECO or HECO, Capillary NPW10 10500 Vers NJ 7/12 Hestachior Composition NPW Certified SIV-948 50912 G.C. Extraction, ECO or HECO, Capillary NPW10 10500 Vers NJ 7/12 Hes									7/1/2002
Endought II									7/1/2002
Endocuman surfate									
Endring   NPW   Certified   SW-848 (8918   GO, Extraction, ECO or HECO, Capilary   NPWIN (1918)   Ves   NJ   7712									
Endrin asterlyde  PAPW Certified SW-948 6981B  GC. Extraction, ECO or HECC, Capillary, NeWIOL 10100 Yes NJ 7712  Heptschier NPW Certified SW-948 6981B  GC. Extraction, ECO or HECC, Capillary, NeWIOL 10110 Yes NJ 7712  Heptschier NPW Certified SW-948 6981B  GC. Extraction, ECO or HECC, Capillary, NeWIOL 101130 Yes NJ 7712  Hestschier pounde  NPW Certified SW-948 6981B  GC. Extraction, ECO or HECC, Capillary, NeWIOL 101130 Yes NJ 7712  Hestschier pounde  NPW Certified SW-948 6981B  GC. Extraction, ECO or HECC, Capillary, NeWIOL 101130 Yes NJ 7712  Methosychor NPW Certified SW-948 6981B  GC. Extraction, ECO or HECC, Capillary, NeWIOL 101150 Yes NJ 7712  Methosychor NPW Certified SW-948 6981B  GC. Extraction, ECO or HECC, Capillary, NeWIOL 101160 Yes NJ 7712  Methosychor NPW Certified SW-948 6981B  GC. Extraction, ECO or HECC, Capillary, NeWIOL 101160 Yes NJ 7712  Torasphene NPW Certified SW-948 6981B  GC. Extraction, ECO or HECC, Capillary, NeWIOL 101160 Yes NJ 7712  Torasphene NPW Certified SW-948 6981B  GC. Extraction, ECO or HECC, Capillary, NeWIOL 101160 Yes NJ 7712  Torasphene NPW Certified SW-948 6981B  GC. Extraction, ECO or HECC, Capillary, NeWIOL 101160 Yes NJ 7712  Torasphene NPW Certified SW-948 6981B  GC. Extraction, ECO or HECC, Capillary, NeWIOL 101160 Yes NJ 7712  Torasphene NPW Certified SW-948 6981B  GC. Extraction, ECO or HECC, Capillary, NeWIOL 101460 Yes NJ 7712  Torasphene NPW Certified SW-948 6981B  GC. Extraction, ECO or HECC, Capillary, NeWIOL 101460 Yes NJ 7712  Torasphene NPW Certified SW-948 6981B  GC. Extraction, ECO or HECC, Capillary, NeWIOL 101460 Yes NJ 7712  Torasphene NPW Certified SW-948 6981B  GC. Extraction, ECO or HECC, Capillary, NeWIOL 101460 Yes NJ 7712  Torasphene NPW Certified SW-948 6981B  GC. Extraction, ECO or HECC, Capillary, NeWIOL 101460 Yes NJ 7712  Torasphene NPW Certified SW-948 6981B  GC. Extraction, ECO or HECC, Capillary, NeWIOL 101460 Yes NJ 7712  Torasphene NPW Certified SW-948 6981A  GC. Extraction, ECO or HECC, Capillary, NeWIOL 101460 Yes NJ 7712  Torasph									
Endrin storie									7/1/2002 7/1/2002
Hegstachor									
Heptachor sponsize									
Hexachimotextendence   NPW   Certified   SW-948 8081B   SC, Extraction, ECO or HECD, Capillary   NPWID.10150   Yes   NJ   92.12									
Lindsine (gamma BHC)									
Methodychlor   NPW   Certified   SW-948 8081B   SC, Extraction, ECO or HECD, Capillary   NPWIO, 10180   Yes   NJ   7712									
Mires									7/1/2002
Toxaphene									7/1/2002
PCB 1015   NPW   Certified   SW-948 8082   GC, Extraction, ECO or HECO, Capillary   NPW10.10480   Yes   NJ   771/2   PCB 1232   NPW   Certified   SW-948 8082   GC, Extraction, ECO or HECO, Capillary   NPW10.10480   Yes   NJ   771/2   PCB 1232   NPW   Certified   SW-948 8082   GC, Extraction, ECO or HECO, Capillary   NPW10.10500   Yes   NJ   771/2   PCB 1242   NPW   Certified   SW-948 8082   GC, Extraction, ECO or HECO, Capillary   NPW10.10510   Yes   NJ   771/2   PCB 1248   NPW   Certified   SW-948 8082   GC, Extraction, ECO or HECO, Capillary   NPW10.10530   Yes   NJ   771/2   PCB 1254   NPW   Certified   SW-948 8082   GC, Extraction, ECO or HECO, Capillary   NPW10.10530   Yes   NJ   771/2   PCB 1256   NPW   Certified   SW-948 8082   GC, Extraction, ECO or HECO, Capillary   NPW10.10530   Yes   NJ   771/2   PCB 1251   NPW   Certified   SW-948 8082   GC, Extraction, ECO or HECO, Capillary   NPW10.10530   Yes   NJ   771/2   PCB 1251   NPW   Certified   SW-948 8082   GC, Extraction, ECO or HECO, Capillary   NPW10.10530   Yes   NJ   771/2   PCB 1251   NPW   Certified   SW-948 8082   GC, Extraction, ECO or HECO, Capillary   NPW10.10780   Yes   NJ   771/2   PCB 1252   NPW   Certified   SW-948 8082   GC, Extraction, ECO or HECO, Capillary   NPW10.10780   Yes   NJ   771/2   PCB 1254   NPW   Certified   SW-948 8082   GC, Extraction, ECO or HECO, Capillary   NPW10.10780   Yes   NJ   771/2   PCB 1254   NPW   Certified   SW-948 8082   GC, Extraction, ECO or HECO, Capillary   NPW10.10780   Yes   NJ   771/2   PCB 1254   NPW   Certified   SW-948 8082   GC, Extraction, ECO or HECO, Capillary   NPW10.10780   Yes   NJ   771/2   PCB 1254   NPW   Certified   SW-948 8082   GC, Extraction, ECO or HECO, Capillary   NPW10.10780   Yes   NJ   771/2   PCB 1256   NPW   Certified   SW-948 8082   GC, Extraction, ECO or HECO, Capillary   NPW10.10780   Yes   NJ   771/2   PCB 1258   NPW   Certified   SW-948 8082   GC, Extraction, ECO or HECO, Capillary   NPW10.10780   Yes   NJ   771/2   PCB 1258   NPW   Certified   SW-948 8082   GC, Extracti									4/3/2008
PCB 1221   NPW   Certified   SW-948 8082   GC, Extraction, ECD or HECO, Capillary   NPW10, 11950   Yes   NJ   771/2   PCB 1242   NPW   Certified   SW-948 8082   GC, Extraction, ECD or HECO, Capillary   NPW10, 10510   Yes   NJ   771/2   PCB 1248   NPW   Certified   SW-948 8082   GC, Extraction, ECD or HECO, Capillary   NPW10, 10520   Yes   NJ   771/2   PCB 1248   NPW   Certified   SW-948 8082   GC, Extraction, ECD or HECO, Capillary   NPW10, 10520   Yes   NJ   771/2   PCB 1254   NPW   Certified   SW-948 8082   GC, Extraction, ECD or HECO, Capillary   NPW10, 10520   Yes   NJ   771/2   PCB 1254   NPW   Certified   SW-948 8082   GC, Extraction, ECD or HECO, Capillary   NPW10, 10540   Yes   NJ   771/2   PCB 1251   NPW   Certified   SW-948 8082   GC, Extraction, ECD or HECO, Capillary   NPW10, 10784   Yes   NJ   771/2   PCB 1251   NPW   Certified   SW-948 8082   GC, Extraction, ECD or HECO, Capillary   NPW10, 10784   Yes   NJ   771/2   PCB 1242   NPW   Certified   SW-948 8082   GC, Extraction, ECD or HECO, Capillary   NPW10, 10790   Yes   NJ   771/2   PCB 1242   NPW   Certified   SW-948 8082   GC, Extraction, ECD or HECO, Capillary   NPW10, 10790   Yes   NJ   771/2   PCB 1242   NPW   Certified   SW-948 8082   GC, Extraction, ECD or HECO, Capillary   NPW10, 10790   Yes   NJ   771/2   PCB 1254   NPW   Certified   SW-948 8082   GC, Extraction, ECD or HECO, Capillary   NPW10, 10790   Yes   NJ   771/2   PCB 1254   NPW   Certified   SW-948 8082   GC, Extraction, ECD or HECO, Capillary   NPW10, 10790   Yes   NJ   771/2   PCB 1252   NPW   Certified   SW-948 8082   GC, Extraction, ECD or HECO, Capillary   NPW10, 10790   Yes   NJ   771/2   PCB 1252   NPW   Certified   SW-948 8082   GC, Extraction, ECD or HECO, Capillary   NPW10, 10790   Yes   NJ   771/2   PCB 1256   NPW   Certified   SW-948 8082   GC, Extraction, ECD or HECO, Capillary   NPW10, 10790   Yes   NJ   771/2   PCB 1256   NPW   Certified   SW-948 8082   GC, Extraction, ECD or HECO, Capillary   NPW10, 10790   Yes   NJ   771/2   PCB 1256   NPW   Certified   SW-948 81									7/1/2002
PCB 1232   NPW   Certified   SW-948 8082   GC, Extraction, ECO or HECO, Capillary   NPW10 10510   Yes   NJ   77/12   PCB 1248   NPW   Certified   SW-948 8082   GC, Extraction, ECO or HECO, Capillary   NPW10 10510   Yes   NJ   77/12   PCB 1254   NPW   Certified   SW-948 8082   GC, Extraction, ECO or HECO, Capillary   NPW10 10520   Yes   NJ   77/12   PCB 1250   NPW   Certified   SW-948 8082   GC, Extraction, ECO or HECO, Capillary   NPW10 10520   Yes   NJ   77/12   PCB 1251   NPW   Certified   SW-948 8082   GC, Extraction, ECO or HECO, Capillary   NPW10 10530   Yes   NJ   77/12   PCB 1251   NPW   Certified   SW-948 8082A   GC, Extraction, ECO or HECO, Capillary   NPW10 10780   Yes   NJ   77/12   PCB 1232   NPW   Certified   SW-948 8082A   GC, Extraction, ECO or HECO, Capillary   NPW10 10780   Yes   NJ   77/12   PCB 1242   NPW   Certified   SW-948 8082A   GC, Extraction, ECO or HECO, Capillary   NPW10 10800   Yes   NJ   77/12   PCB 1244   NPW   Certified   SW-948 8082A   GC, Extraction, ECO or HECO, Capillary   NPW10 10800   Yes   NJ   77/12   PCB 1254   NPW   Certified   SW-948 8082A   GC, Extraction, ECO or HECO, Capillary   NPW10 10800   Yes   NJ   77/12   PCB 1254   NPW   Certified   SW-948 8082A   GC, Extraction, ECO or HECO, Capillary   NPW10 10820   Yes   NJ   77/12   PCB 1254   NPW   Certified   SW-948 8082A   GC, Extraction, ECO or HECO, Capillary   NPW10 10820   Yes   NJ   77/12   PCB 1256   NPW   Certified   SW-948 8082A   GC, Extraction, ECO or HECO, Capillary   NPW10 10820   Yes   NJ   77/12   PCB 1258   NPW   Certified   SW-948 8082A   GC, Extraction, ECO or HECO, Capillary   NPW10 10820   Yes   NJ   77/12   PCB 1258   NPW   Certified   SW-948 8082A   GC, Extraction, ECO or HECO, Capillary   NPW10 10820   Yes   NJ   77/12   PCB 1258   NPW   Certified   SW-948 8082A   GC, Extraction, ECO or HECO, Capillary   NPW10 10820   Yes   NJ   77/12   PCB 1259   NPW   Certified   SW-948 8082A   GC, Extraction, ECO or HECO, Capillary   NPW10 10890   Yes   NJ   77/12   PCB 1259   NPW   Certified   SW-948 8082A									7/1/2002
PCB 1242   NPW   Certified   SW-948 5082   GC, Extraction, ECD or HECD, Capillary   NPW10 10510   Yes   NJ   771/2   PCB 1254   NPW   Certified   SW-948 5082   GC, Extraction, ECD or HECD, Capillary   NPW10 10530   Yes   NJ   771/2   PCB 1254   NPW   Certified   SW-948 5082   GC, Extraction, ECD or HECD, Capillary   NPW10 10530   Yes   NJ   771/2   PCB 1016   NPW   Certified   SW-948 5082   GC, Extraction, ECD or HECD, Capillary   NPW10 10780   Yes   NJ   771/2   PCB 1221   NPW   Certified   SW-948 5082A   GC, Extraction, ECD or HECD, Capillary   NPW10 10780   Yes   NJ   771/2   Yes   NJ   771	PCB 1221								7/1/2002
PCB 1248	PCB 1232								7/1/2002
PCB 1254 NPW Certified SW-946 8082 GC, Extraction, ECO or HECO, Capillary NPW10.10530 Yes NJ 77/12 PCB 1250 NPW Certified SW-946 8082 GC, Extraction, ECO or HECO, Capillary NPW10.10530 Yes NJ 77/12 PCB 1251 NPW Certified SW-946 8082A GC, Extraction, ECO or HECO, Capillary NPW10.10530 Yes NJ 77/12 PCB 1221 NPW Certified SW-946 8082A GC, Extraction, ECO or HECO, Capillary NPW10.10530 Yes NJ 77/12 PCB 1221 NPW Certified SW-946 8082A GC, Extraction, ECO or HECO, Capillary NPW10.10790 Yes NJ 77/12 PCB 1232 NPW Certified SW-946 8082A GC, Extraction, ECO or HECO, Capillary NPW10.10790 Yes NJ 77/12 PCB 1242 NPW Certified SW-946 8082A GC, Extraction, ECO or HECO, Capillary NPW10.10810 Yes NJ 77/12 PCB 1248 NPW Certified SW-946 8082A GC, Extraction, ECO or HECO, Capillary NPW10.10810 Yes NJ 77/12 PCB 1254 NPW Certified SW-946 8082A GC, Extraction, ECO or HECO, Capillary NPW10.10830 Yes NJ 77/12 PCB 1254 NPW Certified SW-946 8082A GC, Extraction, ECO or HECO, Capillary NPW10.10830 Yes NJ 77/12 PCB 1252 NPW Certified SW-946 8082A GC, Extraction, ECO or HECO, Capillary NPW10.10830 Yes NJ 77/12 PCB 1258 NPW Certified SW-946 8082A GC, Extraction, ECO or HECO, Capillary NPW10.10830 Yes NJ 77/12 PCB 1258 NPW Certified SW-946 8082A GC, Extraction, ECO or HECO, Capillary NPW10.10830 Yes NJ 77/12 PCB 1258 NPW Certified SW-946 8082A GC, Extraction, ECO or HECO, Capillary NPW10.10890 Yes NJ 101/122 DEG 124-1 NPW Certified SW-946 8082A GC, Extraction, ECO or HECO, Capillary NPW10.10890 Yes NJ 101/122 DEG 124-1 NPW Certified SW-946 8081A GC, Extraction, ECO, Capillary NPW10.10890 Yes NJ 101/122 DEG 124-1 NPW Certified SW-946 8081A GC, Extraction, ECO, Capillary NPW10.10230 Yes NJ 101/122 DEG 124-1 NPW Certified SW-946 8081A GC, Extraction, ECO, Capillary NPW10.10230 Yes NJ 101/122 DEG 124-1 NPW Certified SW-946 8081A GC, Extraction, ECO, Capillary NPW10.10230 Yes NJ 101/122 DEG 124-1 NPW Certified SW-946 8081A GC, Extraction, ECO, Capillary NPW10.10230 Yes NJ 101/122 DEG 124-1 NPW Certified SW-946 8081A GC, Extraction, ECO, Capillary									7/1/2002
PCB 1350   NPW   Certified   SW-948 8082   GC, Extraction, ECD or HECD, Capillary   NPW10.10540   Yes   NJ   771/2   PCB 1211   NPW   Certified   SW-948 8082A   GC, Extraction, ECD or HECD, Capillary   NPW10.10780   Yes   NJ   771/2   PCB 1232   NPW   Certified   SW-948 8082A   GC, Extraction, ECD or HECD, Capillary   NPW10.10790   Yes   NJ   771/2   PCB 1232   NPW   Certified   SW-948 8082A   GC, Extraction, ECD or HECD, Capillary   NPW10.10790   Yes   NJ   771/2   PCB 1242   NPW   Certified   SW-948 8082A   GC, Extraction, ECD or HECD, Capillary   NPW10.10810   Yes   NJ   771/2   PCB 1248   NPW   Certified   SW-948 8082A   GC, Extraction, ECD or HECD, Capillary   NPW10.10810   Yes   NJ   771/2   PCB 1250   NPW   Certified   SW-948 8082A   GC, Extraction, ECD or HECD, Capillary   NPW10.10830   Yes   NJ   771/2   PCB 1250   NPW   Certified   SW-948 8082A   GC, Extraction, ECD or HECD, Capillary   NPW10.10830   Yes   NJ   771/2   PCB 1250   NPW   Certified   SW-948 8082A   GC, Extraction, ECD or HECD, Capillary   NPW10.10840   Yes   NJ   771/2   PCB 1258   NPW   Certified   SW-948 8082A   GC, Extraction, ECD or HECD, Capillary   NPW10.10840   Yes   NJ   771/2   PCB 1258   NPW   Certified   SW-948 8082A   GC, Extraction, ECD or HECD, Capillary   NPW10.10840   Yes   NJ   771/2   PCB 1258   NPW   Certified   SW-948 8082A   GC, Extraction, ECD or HECD, Capillary   NPW10.10840   Yes   NJ   771/2   PCB 1264   NPW   Certified   SW-948 8151A   GC, Extraction, ECD or HECD, Capillary   NPW10.10860   Yes   NJ   771/2   PCB 1264   NPW   Certified   SW-948 8151A   GC, Extraction, ECD, Capillary   NPW10.12230   Yes   NJ   771/2   PCB 1264   NPW   Certified   SW-948 8151A   GC, Extraction, ECD, Capillary   NPW10.12230   Yes   NJ   771/2   PCB 1264   NPW   Certified   SW-948 8151A   GC, Extraction, ECD, Capillary   NPW10.12230   Yes   NJ   771/2   PCB 1264   NPW   Certified   SW-948 8151A   GC, Extraction, ECD, Capillary   NPW10.12230   Yes   NJ   771/2   PCB 1264   NPW   Certified   SW-948 8151A   GC, Extraction, ECD, Capill									7/1/2002
PCB 1016   NPW   Certified   SW-948 8082A   GC, Extraction, ECO or HECD, Capillary   NPW10.10780   Yes   NJ   771/2									7/1/2002
PCB 1221   NPW   Certified   SW-948 8082A   GC, Extraction, ECD or HECD, Capillary   NPW10.10790   Yes   NJ   771/2									7/1/2002
PCB 1232   NPW   Certified   SW-948 8082A   GC, Extraction, ECO or HECD, Capillary   NPW10.10800   Yes   NJ   771/2									7/1/2002
PCB 1242   NPW   Certified   SW-948 8082A   GC, Extraction, ECO or HECD, Capillary   NPW10.10810   Yes   NJ   77/12   PCB 1254   NPW   Certified   SW-948 8082A   GC, Extraction, ECO or HECD, Capillary   NPW10.10820   Yes   NJ   77/12   PCB 1254   NPW   Certified   SW-948 8082A   GC, Extraction, ECO or HECD, Capillary   NPW10.10830   Yes   NJ   77/12   PCB 1252   NPW   Certified   SW-948 8082A   GC, Extraction, ECO or HECD, Capillary   NPW10.10830   Yes   NJ   77/12   PCB 1252   NPW   Certified   SW-948 8082A   GC, Extraction, ECO or HECD, Capillary   NPW10.10830   Yes   NJ   10/12/2   PCB 1258   NPW   Certified   SW-948 8082A   GC, Extraction, ECO or HECD, Capillary   NPW10.10850   Yes   NJ   10/12/2   PCB 1258   NPW   Certified   SW-948 8151A   GC, Extraction, ECO or HECD, Capillary   NPW10.10850   Yes   NJ   10/12/2   PCB 1254   NPW   Certified   SW-948 8151A   GC, Extraction, ECO, Capillary   NPW10.12230   Yes   NJ   77/12   PCB 1254   NPW   Certified   SW-948 8151A   GC, Extraction, ECO, Capillary   NPW10.12240   Yes   NJ   77/12   PCB 1254   NPW   Certified   SW-948 8151A   GC, Extraction, ECO, Capillary   NPW10.12250   Yes   NJ   77/12   PCB 1254   NPW   Certified   SW-948 8151A   GC, Extraction, ECO, Capillary   NPW10.12250   Yes   NJ   77/12   PCB 1254   NPW   Certified   SW-948 8151A   GC, Extraction, ECO, Capillary   NPW10.12270   Yes   NJ   77/12   PCB 1254   NPW   Certified   SW-948 8151A   GC, Extraction, ECO, Capillary   NPW10.12290   Yes   NJ   77/12   PCB 1254   NPW   Certified   SW-948 8151A   GC, Extraction, ECO, Capillary   NPW10.12290   Yes   NJ   77/12   PCB 1254   NPW   Certified   SW-948 8151A   GC, Extraction, ECO, Capillary   NPW10.12300   Yes   NJ   77/12   PCB 1254   NPW   Certified   SW-948 8151A   GC, Extraction, ECO, Capillary   NPW10.12300   Yes   NJ   77/12   PCB 1254   NPW   Certified   SW-948 8151A   GC, Extraction, ECO, Capillary   NPW10.12300   Yes   NJ   77/12   PCB 1254   NPW   Certified   SW-948 8151A   GC, Extraction, ECO, Capillary   NPW10.12300   Yes   NJ   77/12   PC									7/1/2002
PCB 1248   NPW   Certified   SW-948 8082A   GC, Extraction, ECD or HECD, Capillary   NPW10.10820   Yes   NJ   77/12   PCB 1254   NPW   Certified   SW-948 8082A   GC, Extraction, ECD or HECD, Capillary   NPW10.10830   Yes   NJ   77/12   PCB 1250   NPW   Certified   SW-948 8082A   GC, Extraction, ECD or HECD, Capillary   NPW10.10830   Yes   NJ   77/12   PCB 1252   NPW   Certified   SW-948 8082A   GC, Extraction, ECD or HECD, Capillary   NPW10.10850   Yes   NJ   77/12   PCB 1258   NPW   Certified   SW-948 8082A   GC, Extraction, ECD or HECD, Capillary   NPW10.10850   Yes   NJ   10/12/2   PCB 1258   NPW   Certified   SW-948 8082A   GC, Extraction, ECD or HECD, Capillary   NPW10.10850   Yes   NJ   10/12/2   PCB 1258   NPW   Certified   SW-948 8082A   GC, Extraction, ECD, Capillary   NPW10.10850   Yes   NJ   10/12/2   PCB 1258   NPW   Certified   SW-948 8082A   GC, Extraction, ECD, Capillary   NPW10.10850   Yes   NJ   77/12   PCB 124-1   NPW   Certified   SW-948 8151A   GC, Extraction, ECD, Capillary   NPW10.12230   Yes   NJ   77/12   PCB 124-1   NPW   Certified   SW-948 8151A   GC, Extraction, ECD, Capillary   NPW10.12270   Yes   NJ   87/13/2   PCB 124-1   NPW   Certified   SW-948 8151A   GC, Extraction, ECD, Capillary   NPW10.12270   Yes   NJ   77/12   PCB 124-1   NPW   Certified   SW-948 8151A   GC, Extraction, ECD, Capillary   NPW10.12270   Yes   NJ   77/12   PCB 124-1   NPW   Certified   SW-948 8151A   GC, Extraction, ECD, Capillary   NPW10.12370   Yes   NJ   77/12   PCB 124-1   NPW   Certified   SW-948 8151A   GC, Extraction, ECD, Capillary   NPW10.12370   Yes   NJ   87/13/2   PCB 124-1   NPW   Certified   SW-948 8151A   GC, Extraction, ECD, Capillary   NPW10.12370   Yes   NJ   87/13/2   PCB 124-1   NPW   Certified   SW-948 8151A   GC, Extraction, ECD, Capillary   NPW10.12370   Yes   NJ   77/12   PCB 124-1   NPW   Certified   SW-948 8151A   GC, Extraction, ECD, Capillary   NPW10.12370   Yes   NJ   77/12   PCB 124-1   NPW   Certified   SW-948 8151A   GC, Extraction, ECD, Capillary   NPW10.12370   Yes   NJ   77									7/1/2002
PCB 1254   NPW   Certified   SW-948 8082A   GC, Extraction, ECO or HECO, Capillary   NPW10 10830   Yes   NJ   77/12   PCB 1262   NPW   Certified   SW-948 8082A   GC, Extraction, ECO or HECO, Capillary   NPW10 10830   Yes   NJ   77/12   PCB 1262   NPW   Certified   SW-948 8082A   GC, Extraction, ECO or HECO, Capillary   NPW10 10850   Yes   NJ   10/122   PCB 1268   NPW   Certified   SW-948 8082A   GC, Extraction, ECO or HECO, Capillary   NPW10 10850   Yes   NJ   10/122   PCB 1268   NPW   Certified   SW-948 8151A   GC, Extraction, ECO or Gapillary   NPW10 10850   Yes   NJ   77/12   PCB 1264   NPW   Certified   SW-948 8151A   GC, Extraction, ECO Capillary   NPW10 12230   Yes   NJ   77/12   PCB 1264   NPW   Certified   SW-948 8151A   GC, Extraction, ECO, Capillary   NPW10 12250   Yes   NJ   77/12   PCB 1264   NPW   Certified   SW-948 8151A   GC, Extraction, ECO, Capillary   NPW10 12250   Yes   NJ   77/12   PCB 1264   NPW   Certified   SW-948 8151A   GC, Extraction, ECO, Capillary   NPW10 12250   Yes   NJ   77/12   PCB 1264   NPW   Certified   SW-948 8151A   GC, Extraction, ECO, Capillary   NPW10 12250   Yes   NJ   77/12   PCB 1264   NPW   Certified   SW-948 8151A   GC, Extraction, ECO, Capillary   NPW10 12300   Yes   NJ   77/12   PCB 1264   NPW   Certified   SW-948 8151A   GC, Extraction, ECO, Capillary   NPW10 12300   Yes   NJ   77/12   PCB 1264   NPW   Certified   SW-948 8151A   GC, Extraction, ECO, Capillary   NPW10 12300   Yes   NJ   8/130   PCB 1264   NPW   Certified   SW-948 8151A   GC, Extraction, ECO, Capillary   NPW10 12330   Yes   NJ   8/130   PCB 1264   NPW   Certified   SW-948 8151A   GC, Extraction, ECO, Capillary   NPW10 12330   Yes   NJ   8/130   PCB 1264   NPW   Certified   SW-948 8151A   GC, Extraction, ECO, Capillary   NPW10 12330   Yes   NJ   8/130   PCB 1264   NPW   Certified   SW-948 8151A   GC, Extraction, ECO, Capillary   NPW10 12330   Yes   NJ   8/130   PCB 1264   NPW   Certified   SW-948 8151A   GC, Extraction, ECO, Capillary   NPW10 12330   Yes   NJ   8/130   PCB 1264   NPW   Certified									7/1/2002
PCB 1550   NPW   Certified   SW-948 8082A   GC, Extraction, ECD or HECD, Capillary   NPW10 10850   Yes   NJ   101125   PCB 1552   NPW   Certified   SW-948 8082A   GC, Extraction, ECD or HECD, Capillary   NPW10 10850   Yes   NJ   101125   PCB 1568   NPW   Certified   SW-948 8082A   GC, Extraction, ECD or HECD, Capillary   NPW10 10850   Yes   NJ   101125   PCB 1568   NPW   Certified   SW-948 8151A   GC, Extraction, ECD, Capillary   NPW10 10250   Yes   NJ   7710   PCB 164   NPW   Certified   SW-948 8151A   GC, Extraction, ECD, Capillary   NPW10 12240   Yes   NJ   7710   PCB 164   NPW   Certified   SW-948 8151A   GC, Extraction, ECD, Capillary   NPW10 12250   Yes   NJ   7710   PCB 164   NPW   Certified   SW-948 8151A   GC, Extraction, ECD, Capillary   NPW10 12250   Yes   NJ   7710   PCB 164   NPW   Certified   SW-948 8151A   GC, Extraction, ECD, Capillary   NPW10 12250   Yes   NJ   7710   PCB 164   NPW   Certified   SW-948 8151A   GC, Extraction, ECD, Capillary   NPW10 12250   Yes   NJ   7710   PCB 164   NPW   Certified   SW-948 8151A   GC, Extraction, ECD, Capillary   NPW10 12250   Yes   NJ   7710   PCB 164   NPW   Certified   SW-948 8151A   GC, Extraction, ECD, Capillary   NPW10 12250   Yes   NJ   87130   PCB 164   NPW   Certified   SW-948 8151A   GC, Extraction, ECD, Capillary   NPW10 12350   Yes   NJ   87130   PCB 164   NPW   Certified   SW-948 8151A   GC, Extraction, ECD, Capillary   NPW10 12350   Yes   NJ   87130   PCB 164   NPW   Certified   SW-948 8151A   GC, Extraction, ECD, Capillary   NPW10 12350   Yes   NJ   87130   PCB 164   NPW   Certified   SW-948 8151A   GC, Extraction, ECD, Capillary   NPW10 12350   Yes   NJ   87130   PCB 164   NPW   Certified   SW-948 8151A   GC, Extraction, ECD, Capillary   NPW10 12350   Yes   NJ   87140   PCB 164   NPW   Certified   SW-948 8151A   GC, Extraction, ECD, Capillary   NPW10 12350   Yes   NJ   87140   PCB 164   NPW   Certified   SW-948 8151A   GC, Extraction, ECD, Capillary   NPW10 12350   Yes   NJ   87140   PCB 164   NPW   Certified   SW-948 8151A   GC, Extraction,					GC, Extraction, ECD or HECD, Capillary				7/1/2002
PCB 1252   NPW   Certified   SW-948 5082A   GC, Extraction, ECD or HECD, Capillary   NPW10 10850   Yes   NJ   101127									7/1/2002
PCB 1258   NPW   Certified   SW-948 8032A   GC, Extraction, ECD or HECD, Capillary   NPW10 10850   Yes   NJ   10/12/2					GC, Extraction, ECD or HECD, Capillary				7/1/2002
D(2,4-)   NPW   Certified   SW-948 8151A   GC, Extraction, ECO, Capillary   NPW10,12230   Yes   NJ   77/12									10/12/2011
Dalapon	PCB 1268								10/12/2011
Dicamba	D (2,4-)	NPW	Certified	SW-846 8151A	GC, Extraction, ECD, Capillary	NPW10.12230	Yes	NJ	7/1/2002
Dicamba	Dalapon	NPW	Certified	SW-846 8151A	GC, Extraction, ECD, Capillary	NPW10.12240	Yes	NJ	7/1/2002
Dichioprop	DB (2,4-)	NPW	Certified		GC, Extraction, ECD, Capillary				8/13/2003
Dinoseb   NPW   Certified   SW-948 8151A   GC, Extraction, ECD, Capillary   NPW10.12300   Yes   NJ   7/1/2					GC, Extraction, ECD, Capillary				7/1/2002
MCPA	Dichiorprop								8/13/2003
MCPP	Dinoseb								7/1/2002
Pentachlorophenol   NPW   Certified   SW-948 8151A   GC, Extraction, ECD, Capillary   NPW10.12350   Yes   NJ   8/13C	MCPA						Yes		8/13/2003
Picloram   NPW   Certified   SW-945-8151A   GC, Extraction, ECD, Capillary   NPW10.12350   Yes   NJ   7/1/2	MCPP						Yes		8/13/2003
T (2,4,5r)         NPW         Certified         SW-948 9151A         GC, Extraction, ECD, Capillary         NPW10.13370         Yes         NJ         7/1/2           T (2,4,5r) (Silvex)         NPW         Certified         SW-948 9151A         GC, Extraction, ECD, Capillary         NPW10.14320         Yes         NJ         7/1/2           Methoxychlor         NPW         Certified         User Defined EPA 508         Extraction, ECD, Capillary         NPW10.14320         Yes         NJ         7/1/2           Beta BHC         NPW         Certified         User Defined EPA 508         GC         NPW10.14520         Yes         NJ         7/1/2           Deta BHC         NPW         Certified         User Defined EPA 508         GC         NPW10.14570         Yes         NJ         7/1/2           Endosulfan suifate         NPW         Certified         User Defined EPA 508         GC         NPW10.14570         Yes         NJ         7/1/2           Endosulfan suifate         NPW         Certified         User Defined EPA 508         GC         NPW10.14570         Yes         NJ         7/1/2           Methoxychlor         NPW         Certified         User Defined EPA 508         GC         NPW10.14700         Yes         NJ         7/1/2 <td>Pentachiorophenol</td> <td>NPW</td> <td>Certified</td> <td></td> <td>GC, Extraction, ECD, Capillary</td> <td></td> <td>Yes</td> <td>NJ</td> <td>8/13/2003</td>	Pentachiorophenol	NPW	Certified		GC, Extraction, ECD, Capillary		Yes	NJ	8/13/2003
TP (2,4.5+) (SINvex)	Picioram		Certified	SW-846 8151A	GC, Extraction, ECD, Capillary	NPW10.12360	Yes		7/1/2002
TP (2.4.5-) (Silwex)   NPW   Certified   SW-948 8151A   GC, Extraction, ECD, Capillary   NPW10.12380   Yes   NJ   77/12	T (2,4,5-)		Certified	SW-846 8151A	GC, Extraction, ECD, Capillary	NPW10.12370		NJ	7/1/2002
Methoxychior         NPW Certified         User Defined EPA 508         Extract/GC (ECD)         NPW10.14320         Yes         NJ         7/1/2           Beta BHC         NPW Certified         User Defined EPA 508         GC         NPW10.14520         Yes         NJ         7/1/2           Chlordane         NPW         Certified         User Defined EPA 508         GC         NPW10.14570         Yes         NJ         7/1/2           Deta BHC         NPW         Certified         User Defined EPA 508         GC         NPW10.14570         Yes         NJ         7/1/2           Endosulfan sufate         NPW         Certified         User Defined EPA 508         GC         NPW10.14530         Yes         NJ         7/1/2           Endrin         NPW         Certified         User Defined EPA 508         GC         NPW10.14540         Yes         NJ         7/1/2           Methoxychlor         NPW         Certified         User Defined EPA 508         GC         NPW10.14700         Yes         NJ         7/1/2           Simazine         NPW         Certified         User Defined EPA 508         GC         NPW10.14780         Yes         NJ         5/1/2           Toxaphene         NPW         Certified		NPW			GC, Extraction, ECD, Capillary			NJ	7/1/2002
Beta BHC         NPW         Certified         User Defined EPA 508         GC         NPW10.14520         Yes         NJ         7/1/2           Chlordane         NPW         Certified         User Defined EPA 508         GC         NPW10.14530         Yes         NJ         7/1/2           Deta BHC         NPW         Certified         User Defined EPA 508         GC         NPW10.14570         Yes         NJ         7/1/2           Endosulfan sulfate         NPW         Certified         User Defined EPA 508         GC         NPW10.14570         Yes         NJ         7/1/2           Endrin         NPW         Certified         User Defined EPA 508         GC         NPW10.14500         Yes         NJ         7/1/2           Methoxychior         NPW         Certified         User Defined EPA 508         GC         NPW10.14780         Yes         NJ         7/1/2           Simazine         NPW         Certified         User Defined EPA 508         GC         NPW10.14780         Yes         NJ         7/1/2           Toxisphene         NPW         Certified         User Defined EPA 508         GC         NPW10.14800         Yes         NJ         7/1/2		NPW					Yes	NJ	7/1/2002
Chlordane         NPW         Certified         User Defined EPA 508         GC         NPW10.14530         Yes         NJ         7/1/2           Deta BHC         NPW         Certified         User Defined EPA 508         GC         NPW10.14570         Yes         NJ         7/1/2           Endrin         NPW         Certified         User Defined EPA 508         GC         NPW10.145430         Yes         NJ         7/1/2           Endrin         NPW         Certified         User Defined EPA 508         GC         NPW10.14640         Yes         NJ         7/1/2           Methoxychlor         NPW         Certified         User Defined EPA 508         GC         NPW10.14790         Yes         NJ         7/1/2           Simazine         NPW         Certified         User Defined EPA 508         GC         NPW10.14780         Yes         NJ         5/1/2           Toxaphene         NPW         Certified         User Defined EPA 508         GC         NPW10.14800         Yes         NJ         7/1/2	Beta BHC	NPW							7/1/2002
Deta BHC         NPW         Certified         User Defined EPA 608         GC         NPW10.14570         Yes         NJ         7/1/2           Endosulfan sulfate         NPW         Certified         User Defined EPA 608         GC         NPW10.14500         Yes         NJ         7/1/2           Endrin         NPW         Certified         User Defined EPA 608         GC         NPW10.14540         Yes         NJ         7/1/2           Methoxychlor         NPW         Certified         User Defined EPA 608         GC         NPW10.14700         Yes         NJ         7/1/2           Simazine         NPW         Certified         User Defined EPA 608         GC         NPW10.14780         Yes         NJ         5/1/2           Toxaphene         NPW         Certified         User Defined EPA 608         GC         NPW10.14800         Yes         NJ         7/1/2		NPW							7/1/2002
Endosulfan sulfate         NPW         Certified         User Defined EPA 608         GC         NPW10.14630         Yes         NJ         7/1/2           Endrin         NPW         Certified         User Defined EPA 608         GC         NPW10.14540         Yes         NJ         7/1/2           Methoxychlor         NPW         Certified         User Defined EPA 608         GC         NPW10.14700         Yes         NJ         7/1/2           Simazine         NPW         Certified         User Defined EPA 608         GC         NPW10.14780         Yes         NJ         5/17/2           Toxaphene         NPW         Certified         User Defined EPA 608         GC         NPW10.14800         Yes         NJ         7/1/2		NPW							7/1/2002
Endrin         NPW         Certified         User Defined EPA 508         GC         NPWI0.14540         Yes         NJ         7/1/2           Methoxychlor         NPW         Certified         User Defined EPA 508         GC         NPW10.14700         Yes         NJ         7/1/2           Simazine         NPW         Certified         User Defined EPA 508         GC         NPW10.14780         Yes         NJ         5/17/2           Toxaphene         NPW         Certified         User Defined EPA 608         GC         NPW10.14800         Yes         NJ         7/1/2	Endosulfan sulfate								7/1/2002
Methoxychior         NPW Certified         User Defined EPA 508         GC         NPW10.14700         Yes         NJ         7/1/2           Simazine         NPW Certified         User Defined EPA 508         GC         NPW10.14780         Yes         NJ         5/17/2           Toxisphene         NPW Certified         User Defined EPA 508         GC         NPW10.14800         Yes         NJ         7/1/2	Endrin								7/1/2002
Simazine         NPW         Certified         User Defined EPA 608         GC         NPW10.14780         Yes         NJ         5/17/2           Toxaphene         NPW         Certified         User Defined EPA 608         GC         NPW10.14800         Yes         NJ         7/1/2									7/1/2002
Toxaphene NPW Certified User Defined EPA 608 GC NPW10.14800 Yes NJ 7/1/2									5/17/2006
		NPW	Certified	User Defined EPA 608	GC	INPW10.14800	Yes	NJ	7/1/2002



Acetonitrile	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.07880	Yes	NJ	9/8/2016
Acrolein	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.07890	Yes	NJ	7/1/2005
Acrylonitrile	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.07900	Yes	NJ	7/1/2005
Allyl chloride	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.07910	Yes	NJ	9/8/2016
Amyl acetate (n-)	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.07920	Yes	NJ	9/8/2016
Amyl alcohol (n-)	NPW	Applied	EPA 624	GC/MS, P & T, Capillary Column	NPW11.07930	No	NJ	8/13/2003
Benzene	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.07940	Yes	NJ	7/1/2002
Bromobenzene	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.07950	Yes	NJ	9/8/2016
Bromochioromethane	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.07960	Yes	NJ	9/8/2016
Bromodichioromethane	NPW	Certified	EPA 624	GCMS, P & T, Capitary Column	NPW11.07970	Yes	NJ	7/1/2002
Bromoform	NPW	Certified	EPA 624	GCMS, P & T, Capitary Column	NPW11.07970			7/1/2002
						Yes	NJ	
Bromomethane	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08000	Yes	NJ	7/1/2002
Butanol (1-)	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08020	Yes	NJ	9/8/2016
ketonal	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08030	Yes	NJ	7/1/2005
Butyl acetate (n-)	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08040	Yes	NJ	8/13/2003
Butylbenzene (n-)	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08070	Yes	NJ	9/8/2016
Carbon disulfide	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08080	Yes	NJ	7/1/2005
Carbon tetrachioride	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08090	Yes	NJ	7/1/2002
Chiorobenzene	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08100	Yes	NJ	7/1/2002
Chioroethane	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08110	Yes	NJ	7/1/2002
Chloroethyl vinyl ether (2-)	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08120	Yes	NJ	7/1/2002
Chloroform	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08130	Yes	NJ	7/1/2002
Chioromethane	NPW	Certified	EPA 624	GCMS, P & T, Capillary Column	NPW11.08140	Yes	NJ	7/1/2002
Chlorotoluene (2-)	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08150	Yes	NJ	9/8/2016
Chlorotoluene (4-)	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08160	Yes	NJ	9/8/2016
Cyclohexane	NPW	Certified	EPA 624	GC/MS, P & T, Capitary Column	NPW11.08180	Yes	NJ	9/8/2016
Cyclonexane	NPW	Certified	EPA 624	GCMS, P & T, Capillary Column	NPW11.08180	Yes	NJ	9/8/2016
	NPW	Certified	EPA 624		NPW11.08190	Yes	NJ	9/8/2016
Dibromo-3-chioropropane (1,2-)				GCMS, P & T, Capillary Column				
Dibromochioromethane	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08210	Yes	NJ	7/1/2002
Dibromoethane (1,2-) (EDB)	NPW	Certified	EPA 624	GCMS, P & T, Capillary Column	NPW11.08220	Yes	NJ	7/1/2015
Dibromomethane		Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08230	Yes	NJ	9/8/2016
Dichloro-2-butene (trans-1,4-)	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08250	Yes	NJ	9/8/2016
Dichlorobenzene (1,2-)	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08260	Yes	NJ	7/1/2002
Dichlorobenzene (1,3-)	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08270	Yes	NJ	7/1/2002
Dichlorobenzene (1,4-)	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08280	Yes	NJ	7/1/2002
Dichioroethane (1,1-)	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08290	Yes	NJ	7/1/2002
Dichloroethane (1,2-)	NPW	Certified	EPA 624	GCMS, P & T, Capillary Column	NPW11.08300	Yes	NJ	7/1/2002
Dichloroethene (1,1-)	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08310	Yes	NJ	7/1/2002
Dichloroethene (cis-1,2-)	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08320	Yes	NJ	7/1/2005
Dichioroethene (trans-1.2-)	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08330	Yes	NJ	7/1/2002
and the second second second second	NPW	Certified	EPA 624		NPW11.08340			7/1/2002
Dichioropropane (1,2-)		Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08340	Yes	NJ	9/8/2016
Dichioropropane (1,3-)	NPW			GC/MS, P & T, Capillary Column		Yes	NJ	
Dichioropropane (2,2-)	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08360	Yes	NJ	7/26/2013
Dichioropropene (1,1-)	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08370	Yes	NJ	9/8/2016
Dichloropropene (cls-1,3-)	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08380	Yes	NJ	7/1/2002
Dichioropropene (trans-1,3-)	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08390	Yes	NJ	7/1/2002
Diethyl ether (Ethyl ether)	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08400	Yes	NJ	7/1/2007
Disopropyl Ether [DIPE]	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08410	Yes	NJ	7/1/2007
Dioxane (1,4-)	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08420	Yes	NJ	7/1/2005
Ethyl acetate	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08440	Yes	NJ	8/13/2003
Ethyl methacrylate	NPW	Certified	EPA 624	GCMS, P & T, Capillary Column	NPW11.08450	Yes	NJ	9/8/2016
Ethylbenzene	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08460	Yes	NJ	7/1/2002
Ethyl-tert-butyl Ether [ETBE]	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08470	Yes	NJ	12/1/2006
Heptane (n-)	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08480	Yes	NJ	8/13/2003
Hexachiorobutadiene (1.3-)	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08490	Yes	NJ	9/8/2016
Hexane (n-)	NPW NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08500	Yes	NJ	8/13/2003
Hexanone (2-)		Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08510		NJ	7/1/2005
Isobutyraidehyde	NPW	Applied	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08530	No	NJ	8/13/2003
Isopropanol	NPW	Applied	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08540	No	NJ	8/13/2003
Isopropyl acetate	NPW	Applied	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08550	No	NJ	8/13/2003
Isopropyl ether	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08560	Yes	NJ	10/27/2003
Isopropylbenzene	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08570	Yes	NJ	7/1/2007
Isopropyltoluene (4-)	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08580	Yes	NJ	9/8/2016
Methyl acetate	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08600	Yes	NJ	9/8/2016
Methyl formate	NPW	Applied	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08610	No	NJ	8/13/2003
Methyl lodide	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08620	Yes	NJ	9/8/2016
Methyl Isobutyl ketone (MIBK)	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08630	Yes	NJ	10/27/2003
Methyl methacrylate	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08640	Yes	NJ	9/8/2016
Methyl tert-butyl ether	NPW	Certified	EPA 624	GC/MS, P & T, Capitary Column	NPW11.08650	Yes	NJ	7/1/2002
	NPW			GCMS, P & T, Capillary Column	NPW11.08650	Yes		
Methylcyclohexane	141.44	Certified	EPA 624	Comp, r a 1, capitally countri	PRF-W11.U8660		NJ	9/8/2016
Methylene chloride	NPW	Certified	EPA 624	GCMS, P & T, Capillary Column	NPW11.08670	Yes	NJ	7/1/2002
(Dichloromethane)	NIE.							
Nitropropane (2-)	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08680	Yes	NJ	9/8/2016
Propylbenzene (n-)		Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08720		NJ	9/8/2016
Sec-butylbenzene		Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08730		NJ	9/8/2016
Styrene	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08740	Yes	NJ	7/1/2002
tert-Amylmethyl ether [TAME]	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08750	Yes	NJ	12/1/2006
Tert-butyl alcohol	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08770	Yes	NJ	7/1/2002
Tert-butylbenzene	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08780	Yes	NJ	9/8/2016
Tetrachioroethane (1,1,1,2-)	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08790	Yes	NJ	9/8/2016
Tetrachioroethane (1,1,2,2-)	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08800	Yes	NJ	7/1/2002
Tetrachioroethene	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08810	Yes	NJ	7/1/2002
Tetrahydrofuran	NPW	Certified	EPA 624	GCMS, P & T, Capillary Column	NPW11.08820	Yes	NJ	8/13/2003
	NPW			GCMS, P & T, Capillary Column GCMS, P & T, Capillary Column		Yes		
Toluene	MI W	Certified	EPA 624	Como, r a 1, capitary column	NPW11.08830	100	NJ	7/1/2002
Trichloro (1,1,2-) trifluoroethane	NPW	Certified	EPA 624	GCMS, P & T, Capillary Column	NPW11.08840	Yes	NJ	7/1/2005
(1,2,2-)								
Trichlorobenzene (1,2,3-)	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08850	Yes	NJ	9/8/2016
Trichloroethane (1,1,1-)	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08860	Yes	NJ	7/1/2002
Trichlomethane (1,1,2-)	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08870	Yes	NJ	7/1/2002
Trichloroethene	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08880	Yes	NJ	7/1/2002
		Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08890	Yes	NJ	7/1/2002
Trichlorofluoromethane	NPW	Centried	EF/A 624				INU I	11112002
	NPW	Certified		GC/MS, P & T, Capillary Column	NPW11.08900			9/8/2016
Trichlorofluoromethane Trichloropropane (1,2,3-) Trimethylbenzene (1,2,4-)	NPW		EPA 624 EPA 624			Yes Yes	NJ NJ	



Trimethylbenzene (1,3,5-)	NPW	Certified	EPA 624	GCMS, P & T. Capillary Column	NPW11.08930	Yes	NJ	7/1/2005
Vinyi acetate	NPW	Certified	EPA 624	GCMS, P & T, Capillary Column	NPW11.08940	Yes	NJ	7/1/2007
Vinyi chloride	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column	NPW11.08950	Yes	NJ	7/1/2002
	NPW	Certified	EPA 624	GC/MS, P & T, Capitary Column	NPW11.08960	Yes	NJ	
Xylene (m- + p-)	NPW	Certified	EPA 624	GC/MS, P & T, Capillary Column		Yes		7/1/2005
Xylene (o-)	NPW			GCMS, P & T, Capitary Column	NPW11.08980	Yes	NJ	7/1/2005
Xylenes (total)	NPW	Certified	EPA 624		NPW11.09000		NJ	7/1/2002
Acenaphthene	NPW	Certified	EPA 625 EPA 625	Extract, GC/MS	NPW11.09010 NPW11.09020	Yes	NJ	7/1/2002
Acenaphthylene		Certified		Extract, GC/MS		Yes	NJ	7/1/2002
Acetophenone	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09030	Yes	NJ	7/1/2002
Acetylaminofluorene (2-)	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09040	Yes	NJ	9/8/2016
Alpha - terpineol	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09050	Yes	NJ	8/13/2003
Aminobiphenyl (4-)	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09060	Yes	NJ	9/8/2016
Anline	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09070	Yes	NJ	8/13/2003
Anthracene	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09080	Yes	NJ	7/1/2002
Aramite	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09090	Yes	NJ	9/8/2016
Benzidine	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09110	Yes	NJ	7/1/2002
Benzo(a)anthracene	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09120	Yes	NJ	7/1/2002
Benzo(a)pyrene	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09130	Yes	NJ	7/1/2002
Benzo(b)fluoranthene	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09140	Yes	NJ	7/1/2002
Benzo(ghi)perylene	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09150	Yes	NJ	7/1/2002
Benzo(k)fluoranthene	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09170	Yes	NJ	7/1/2002
Benzoic acid	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09180	Yes	NJ	7/1/2002
Benzyl alcohol	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09190	Yes	NJ	9/8/2016
	NPW		EPA 625	Extract, GC/MS			NJ	7/1/2002
Bis (2-chloroethoxy) methane		Certified			NPW11.09210	Yes		
Bis (2-chloroethyl) ether	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09220	Yes	NJ	7/1/2002
Bis(2-chloroisopropyl)ether[2,2'-	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09230	Yes	NJ	7/1/2002
oxybis(1-chioropropane)								
Bis (2-ethylhexyl) phthalate	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09240	Yes	NJ	7/1/2002
Bromophenyl-phenyl ether (4-)	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09250	Yes	NJ	7/1/2002
Butylbenzylphthalate	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09260	Yes	NJ	7/1/2002
Carbazole	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09270	Yes	NJ	7/1/2002
Chioroaniline (4-)	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09280	Yes	NJ	7/1/2002
Chlorobenzilate	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09290	Yes	NJ	9/8/2016
Chioronaphthalene (2-)	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09310	Yes	NJ	7/1/2002
Chiorophenol (2-)	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09320	Yes	NJ	7/1/2002
Chlorophenyl-phenyl ether (4-)	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09330	Yes	NJ	7/1/2002
Chrysene	NPW	Certified	EPA 625	Extract. GC/MS	NPW11.09340	Yes	NJ	7/1/2002
Decane (n-)	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09350	Yes	NJ	8/13/2003
and the property of the proper	NPW	Certified	EPA 625		NPW11.09380		NJ	12/1/2006
Dibenz(a,h)acridine			EPA 625	Extract, GC/MS	NPW11.09380	Yes		7/1/2006
Dibenzo(a,h)anthracene	NPW	Certified		Extract, GC/MS		Yes	NJ	
Dibenzofuran	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09440	Yes	NJ	7/1/2002
Dichioroaniline (2,3-)	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09450	Yes	NJ	8/13/2003
Dichlorobenzidine (3,31-)	NPW	Certified	EPA 62S	Extract, GC/MS	NPW11.09460	Yes	NJ	7/1/2002
Dichiorophenol (2,4-)	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09470	Yes	NJ	7/1/2002
Dichiorophenol (2,6-)	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09480	Yes	NJ	9/8/2016
Diethyl phthalate	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09490	Yes	NJ	7/1/2002
Dimethoate	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09500	Yes	NJ	9/8/2016
Dimethyl benzidine (3,3-)	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09510	Yes	NJ	9/8/2016
Dimethyl phthalate	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09520	Yes	NJ	7/1/2002
Dimethylaminoazobenzene	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09530	Yes	NJ	9/8/2016
Dimenjiochajajanimacene (1,12	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09540	Yes	NJ	12/1/2006
Dimethylphenol (2,4-)	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09550	Yes	NJ	7/1/2002
Di-n-butyl phthalate	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09550	Yes	NJ	7/1/2002
Dinitrobenzene (1.3-)	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09570	Yes	NJ	9/8/2016
	NPW	Certified	EPA 625					
Dinitrophenol (2,4-)				Extract, GC/MS	NPW11.09580	Yes	NJ	7/1/2002
Dinitrophenol (2-methyl-4,6-)	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09590	Yes	NJ	7/1/2002
Dinitrotoluene (2,4-)	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09600	Yes	NJ	7/1/2002
Dinitrotoluene (2,6-)	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09610	Yes	NJ	7/1/2002
Di-n-octyl phthalate	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09620	Yes	NJ	7/1/2002
Diphenylamine	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09630	Yes	NJ	9/8/2016
Diphenylhydrazine (1,2-)	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09640	Yes	NJ	7/1/2004
Famphur	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09680	Yes	NJ	9/8/2016
Fluoranthene	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09690	Yes	NJ	7/1/2002
Fluorene	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09700	Yes	NJ	7/1/2002
Hexachiorobenzene	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09710	Yes	NJ	7/1/2002
Hexachiorobutadiene (1,3-)	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09720	Yes	NJ	7/1/2002
Hexachiorocyclopentadiene	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09730	Yes	NJ	7/1/2002
Hexachioroethane	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09740	Yes	NJ	7/1/2002
Hexachioropropene	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09760	Yes	NJ	9/8/2016
Indeno(1,2,3-cd)pyrene	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.09780	Yes	NJ	7/1/2002
		Certified	EPA 625	Extract, GC/MS	NPW11.09780	Yes	NJ	8/13/2003
			EFN 543			No.		
Isophorone	NPW		COA COC				NJ	7/1/2016
Isophorone Methylnaphthalene (1-)	NPW	Applied	EPA 625	Extract, GC/MS	NPW11.09799			
Isophorone Methylnaphthalene (1-) Kepone	NPW NPW	Applied Certified	EPA 625	Extract, GC/MS	NPW11.09820	Yes	NJ	
Isophorone Methylnaphthalene (1-) Kepone Methanesulfonate (Ethyl-)	NPW NPW NPW	Applied Certified Certified	EPA 625 EPA 625	Extract, GC/MS Extract, GC/MS	NPW11.09820 NPW11.09830	Yes Yes	NJ NJ	9/8/2016
Isophorone Methylnaphthalene (1-) Kepone Methanesulfonate (Ethyl-) Methanesulfonate (Methyl-)	NPW NPW NPW NPW	Applied Certified Certified Certified	EPA 625 EPA 625 EPA 625	Extract, GC/MS Extract, GC/MS Extract, GC/MS	NPW11.09820 NPW11.09830 NPW11.09840	Yes Yes Yes	NJ	9/8/2016 9/8/2016
Isophorone Methylnaphthalene (1-) Kepone Methanesulfonate (Ethyl-) Methanesulfonate (Methyl-) Methapyrliene	NPW NPW NPW NPW	Applied Certified Certified Certified Certified	EPA 625 EPA 625 EPA 625 EPA 625	Extract, GC/MS Extract, GC/MS Extract, GC/MS Extract, GC/MS	NPW11.09820 NPW11.09830 NPW11.09840 NPW11.09850	Yes Yes Yes Yes	NJ NJ	9/8/2016 9/8/2016 9/8/2016
Isophorone Methylnaphthalene (1-) Kepone Methanesulfonate (Ethyl-) Methanesulfonate (Methyl-) Methapyrliene	NPW NPW NPW NPW NPW	Applied Certified Certified Certified Certified Certified	EPA 625 EPA 625 EPA 625 EPA 625 EPA 625 EPA 625	Extract, GCMS Extract, GCMS Extract, GCMS Extract, GCMS Extract, GCMS Extract, GCMS	NPW11.09820 NPW11.09830 NPW11.09840 NPW11.09850 NPW11.09860	Yes Yes Yes Yes Yes	NJ NJ NJ	9/8/2016 9/8/2016 9/8/2016 7/1/2002
Isophorone Methyinaphthalene (1-) Kepone Methanesuffonate (Ethyl-) Methanesuffonate (Methyl-) Methapyrliene Methyl phenol (4-chloro-3-) Methylicholanthrene (3-)	NPW NPW NPW NPW NPW NPW	Applied Certified Certified Certified Certified Certified Certified	EPA 625 EPA 625 EPA 625 EPA 625 EPA 625 EPA 625 EPA 625	Extract, GCIMS	NPW11.09820 NPW11.09830 NPW11.09840 NPW11.09850 NPW11.09860 NPW11.09870	Yes Yes Yes Yes Yes Yes	NJ NJ NJ	9/8/2016 9/8/2016 9/8/2016 7/1/2002 9/8/2016
Isophorone Methylinaphthalene (1-) Kepone Methanesulfonate (Ethyl-) Methanesulfonate (Methyl-) Methapyriene Methylinene Methyliphenol (4-chloro-3-)	NPW NPW NPW NPW NPW	Applied Certified Certified Certified Certified Certified Certified	EPA 625 EPA 625 EPA 625 EPA 625 EPA 625 EPA 625	Extract, GCMS Extract, GCMS Extract, GCMS Extract, GCMS Extract, GCMS Extract, GCMS	NPW11.09820 NPW11.09830 NPW11.09840 NPW11.09850 NPW11.09860	Yes Yes Yes Yes Yes Yes	NJ NJ NJ	9/8/2016 9/8/2016 9/8/2016 7/1/2002
Isophorone Methylhaphthalene (1-) Kepone Methansesufonate (Ethyl-) Methansesufonate (Methyl-) Methapsufonate (Methyl-) Methylphenol (4-chloro-3-) Methylhaphthalene (2-) Methylhaphthalene (2-)	NPW NPW NPW NPW NPW NPW	Applied Certified Certified Certified Certified Certified Certified	EPA 625 EPA 625 EPA 625 EPA 625 EPA 625 EPA 625 EPA 625	Extract, GOMS	NPW11.09820 NPW11.09830 NPW11.09840 NPW11.09850 NPW11.09860 NPW11.09870	Yes Yes Yes Yes Yes Yes	NJ NJ NJ	9/8/2016 9/8/2016 9/8/2016 7/1/2002 9/8/2016
Isophorone Methylnaphthalene (1-) Kepone Methynaphthalene (Ethyl-) Methylnapeuflonate (Ethyl-) Methylnapuflonate (Methyl-) Methylphenol (4-chloro-3-) Methylcholanthrene (3-) Methylphaphthalene (2-) Methylphanhthrene (1-)	NPW NPW NPW NPW NPW NPW NPW NPW	Applied Certified Certified Certified Certified Certified Certified Certified Certified	EPA 625 EPA 625 EPA 625 EPA 625 EPA 625 EPA 625 EPA 625 EPA 625 EPA 625	Extract, GOMS	NPW11.09820 NPW11.09830 NPW11.09840 NPW11.09850 NPW11.09860 NPW11.09870 NPW11.09870 NPW11.09890	Yes Yes Yes Yes Yes Yes Yes Yes	NJ NJ NJ NJ NJ	9/8/2016 9/8/2016 9/8/2016 7/1/2002 9/8/2016 7/1/2002
Isophorone Methylnaphthalene (1-) Kepone Methynaphthalene (Ethyl-) Methylnaphthalene (Methyl-) Methapyrilene Methyl phenol (4-chloro-3-) Methylnaphthalene (2-) Methylphenanthrene (1-) Methylphenanthrene (1-) Methylphenanthrene (1-)	NPW NPW NPW NPW NPW NPW NPW NPW NPW NPW	Applied Certified Certified Certified Certified Certified Certified Certified Certified Certified Certified Certified	EPA 625	Extract, GOM/S	NPW11.09820 NPW11.09830 NPW11.09840 NPW11.09850 NPW11.09860 NPW11.09870 NPW11.09880	Yes	NJ NJ NJ NJ NJ NJ	9/8/2016 9/8/2016 9/8/2016 7/1/2002 9/8/2016 7/1/2002 7/1/2002 8/13/2003
Isophorne Methylnaphthalene (1-) Kepone Methylnaphthalene (1-) Kepone Methylnaphthalene (Methyl-) Methylnaphthalene (Methyl-) Methylphenol (4-chloro-3-) Methylcholanthrene (3-) Methylcholanthrene (3-) Methylphenol (2-) Methylphenol (2-) Methylphenol (2-) Methylphenol (3-)	NPW NPW NPW NPW NPW NPW NPW NPW NPW NPW	Applied Certified Certified Certified Certified Certified Certified Certified Certified Certified Certified Certified Certified	EPA 625	Extract, GCM/IS	NPW11.09820 NPW11.09830 NPW11.09840 NPW11.09860 NPW11.09860 NPW11.09870 NPW11.09890 NPW11.09890 NPW11.09910	Yes	N3 N3 N3 N3 N3 N3 N3 N3 N3 N3	9/8/2016 9/8/2016 9/8/2016 7/1/2002 9/8/2016 7/1/2002 7/1/2002 8/13/2003 9/8/2016
Isophorone Methylnaphthalene (1-) Kepone Methynaphthalene (1-) Kepone Methanesuffonate (Ethyl-) Methapyliene Methanesuffonate (Methyl-) Methylphenol (4-chloro-3-) Methylcholaritivene (3-) Methylphanolaritivene (2-) Methylphanolaritivene (1-) Methylphanol (2-) Methylphanol (3-) Methylphanol (3-)	NPW NPW NPW NPW NPW NPW NPW NPW NPW NPW	Applied Certified Certified Certified Certified Certified Certified Certified Certified Certified Certified Certified Certified Certified Certified Certified	EPA 625	Extract, GOMS	NPW11.09820 NPW11.09830 NPW11.09840 NPW11.09850 NPW11.09860 NPW11.09880 NPW11.09880 NPW11.09890 NPW11.09900 NPW11.09910 NPW11.09910	Yes	NJ U U U U U U U U U U U U U U U U U U U	9/8/2016 9/8/2016 9/8/2016 7/1/2002 9/8/2016 7/1/2002 7/1/2002 8/13/2003 9/8/2016 7/1/2002
Isophorone Methylnaphthalene (1-) Kepone Methynaphthalene (Ethyl-) Methynapsulfonate (Ethyl-) Methapsulfonate (Methyl-) Methapyrilene Methyl phenol (4-chloro-3-) Methylnaphthalene (2-) Methylnaphthalene (1-) Methylphenalthrene (1-) Methylphenol (2-) Methylphenol (2-) Methylphenol (3-) Methylphenol (3-) Methylphenol (4-) Naphthalene	NPW NPW NPW NPW NPW NPW NPW NPW NPW NPW	Applied Certified	EPA 625	Extract, GCM/IS	NPW11.09820 NPW11.09830 NPW11.09840 NPW11.09850 NPW11.09850 NPW11.09850 NPW11.09850 NPW11.09850 NPW11.09930 NPW11.09930 NPW11.09930 NPW11.09930 NPW11.09930	Yes	N3 N3 N3 N3 N3 N3 N3 N3 N3 N3 N3 N3 N3 N	9/8/2016 9/8/2016 9/8/2016 7/1/2002 9/8/2016 7/1/2002 7/1/2002 8/13/2016 7/1/2002 7/1/2002
Isophorone Methyrnaphthalene (1-) Kepone Methyrnaphthalene (1-) Kepone Methyrnaphthalene (Ethyl-) Methyrnaphthalene (3-) Methylicholanthrene (3-) Methylicholanthrene (2-) Methylicholanthrene (1-) Methylicholanthrene (1-) Methylicholanthrene (1-) Methylicholanthrene (1-) Methylicholanthrene (1-) Methylicholanthrene (1-) Methylicholand (3-) Methy	NPW NPW NPW NPW NPW NPW NPW NPW NPW NPW	Applied Certified	EPA 625	Extract, GOMS	NPW11.09820 NPW11.09820 NPW11.09840 NPW11.09850 NPW11.09850 NPW11.09880 NPW11.09880 NPW11.09980 NPW11.09900 NPW11.09910 NPW11.09930 NPW11.09930 NPW11.09930	Yes	R3 R3 R3 R3 R3 R3 R4 R3 R4 R4 R4 R4 R4 R4 R4 R4 R4 R4 R4 R4 R4	9/8/2016 9/8/2016 9/8/2016 7/1/2002 9/8/2016 7/1/2002 7/1/2002 8/13/2003 9/8/2016 7/1/2002 9/8/2016
Isophorone Methylnaphthalene (1-) Kepone Methynaphthalene (1-) Kepone Methanesurfonate (Ethyl-) Methanpsurfonate (Methyl-) Methapyrilene Methyl phenol (4-chloro-3-) Methylnaphthalene (2-) Methylphenanthrene (1-) Methylphenol (2-) Methylphenol (3-) Methylphenol (3-) Methylphenol (3-) Methylphenol (3-) Methylphenol (4-) Naphthalene Naphthalene Naphthalene Naphthalenie (1,4-) Naphthalenie (1-)	NPW	Applied Certified	EPA 625	Extract, GOM/IS	NFW11.09820 NPW11.09830 NPW11.09840 NPW11.09850 NPW11.09860 NPW11.09860 NPW11.09880 NPW11.09990 NPW11.09990 NPW11.09910 NPW11.09920 NPW11.09940 NPW11.09940 NPW11.09940	Yes	NJ N	9/8/2016 9/8/2016 9/8/2016 9/8/2016 7/1/2002 9/8/2016 7/1/2002 8/13/2003 9/8/2016 7/1/2002 7/1/2002 9/8/2016 9/8/2016
Isophorone Methy/naphthalene (1-) Kepone Methy/naphthalene (1-) Kepone Methanesurfonate (Elthyl-) Methyapyrilene Methy plenoi (4-chioro-3-) Methy/cholanthrene (3-) Methy/cholanthrene (3-) Methy/shaphthalene (2-) Methylphenoi (2-) Methylphenoi (3-) Methylphenoi (3-) Methylphenoi (3-) Methylphenoi (3-) Methylphenoi (4-) Naphthalene Naphthalene Naphthylamine (1-) Naphthylamine (1-) Naphthylamine (1-) Naphthylamine (1-) Naphthylamine (1-) Naphthylamine (2-)	NPW	Applied Certified	EPA 625	Extract, GOMS	NPW11.09820 NPW11.09820 NPW11.09840 NPW11.09840 NPW11.09850 NPW11.09870 NPW11.09870 NPW11.09900 NPW11.09900 NPW11.09910 NPW11.09930 NPW11.09930 NPW11.09940 NPW11.09940 NPW11.09950	Yes	NJ N	9/8/2016 9/8/2016 9/8/2016 7/1/2002 9/8/2016 7/1/2002 7/1/2002 8/13/2003 9/8/2016 7/1/2002 9/8/2016 9/8/2016 9/8/2016
Isophorone Methyinaphthalene (1-) Kepone Methyinaphthalene (1-) Kepone Methanesurionate (Bithyi-) Methapyrilene Methanyrilene Methyi phenoi (4-chloro-3-) Methyicholaritivene (3-) Methyinaphthalene (2-) Methyiphenoi (3-) Naphthalene Na	NPW	Applied Certified	EPA 625	Extract, GOMS	NPW11.09820 NPW11.09830 NPW11.09840 NPW11.09840 NPW11.09840 NPW11.09870 NPW11.09870 NPW11.09990 NPW11.09900 NPW11.09900 NPW11.09940 NPW11.09940 NPW11.09950 NPW11.09950 NPW11.09950 NPW11.09950 NPW11.09950 NPW11.09950 NPW11.09950 NPW11.09950 NPW11.09950 NPW11.09950 NPW11.09950 NPW11.09950 NPW11.09950 NPW11.09950	Yes	N3	9/8/2016 9/8/2016 7/1/2002 9/8/2016 7/1/2002 8/13/2003 9/8/2016 7/1/2002 7/1/2002 9/8/2016 9/8/2016 9/8/2016 7/1/2002
Isophorone Methylnaphthalene (1-) Kepone Methylnaphthalene (1-) Kepone Methylnaphthalene (Ethyl-) Methylnaphthalene (Methyl-) Methylnaphthalene (2-) Methylnaphthalene (2-) Methylnaphthalene (2-) Methylphenol (2-) Methylphenol (2-) Methylphenol (2-) Methylphenol (3-) Methylphenol (3-) Methylphenol (4-) Naphthalene Naphthoulnone (1,4-) Naphthylamine (1-) Naphthylamine (1-) Naphthylamine (1-) Naphthylamine (2-) Nitroaniline (2-) Nitroaniline (2-)	NPW	Applied Certified	EPA 625	Extract, GCM/IS	NPW11.09820 NPW11.09820 NPW11.09840 NPW11.09850 NPW11.09850 NPW11.09870 NPW11.09890 NPW11.09900 NPW11.09900 NPW11.09900 NPW11.09930 NPW11.09930 NPW11.09950 NPW11.09950 NPW11.09950 NPW11.09950 NPW11.09950	Yes	N3	9/8/2016 9/8/2016 7/1/2002 9/8/2016 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 9/8/2016 9/8/2016 9/8/2016 9/8/2016 9/8/2016 7/1/2002 7/1/2002
Isophorone Methylnaphthalene (1-) Kepone Methynaphthalene (1-) Methylnaphthalene (1-) Methylnaphthalene (Methyl-) Methylnaphthalene (3-) Methylnaphthalene (2-) Methylnaphthalene (2-) Methylphenol (2-) Methylphenol (2-) Methylphenol (2-) Methylphenol (2-) Methylphenol (3-) Methylphenol (4-) Naphthalene Naphthylamine (1-) Naphthylamine (1-) Naphthylamine (2-) Nitroaniline (2-) Nitroaniline (3-) Nitroaniline (3-) Nitroaniline (4-)	NPW	Applied Certified	EPA 625	Extract, GOMS	NPW11.09820 NPW11.09820 NPW11.09840 NPW11.09840 NPW11.09850 NPW11.09850 NPW11.09850 NPW11.09950 NPW11.09900 NPW11.09910 NPW11.09930 NPW11.09940 NPW11.09950 NPW11.09950 NPW11.09950 NPW11.09950 NPW11.09950 NPW11.09950 NPW11.09950 NPW11.09950	Yes	N	9/8/2016 9/8/2016 7/1/2002 9/8/2016 7/1/2002 7/1/2002 8/13/2003 9/8/2016 7/1/2002 9/8/2016 9/8/2016 9/8/2016 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002
Isophorone Methylnaphthalene (1-) Kepone Methynaphthalene (1-) Kepone Methanesufonate (Ethyl-) Methapyrilene Methyl (A-chloro-3-) Methylnaphthalene (2-) Methylphonathrene (3-) Methylphenathrene (1-) Methylphenathrene (1-) Methylphenol (2-) Methylphenol (3-) Nethylphenol (3-) Naphthylamine (1-) Naphthylamine (2-) Nitroaniline (2-) Nitroaniline (2-) Nitroaniline (3-) Nitroaniline (4-) Nitroaniline (4-) Nitroaniline (4-) Nitrobenzene	NPW	Applied Certified	EPA 625	Extract, GCM/IS	NPW11.09820 NPW11.09830 NPW11.09840 NPW11.09840 NPW11.09840 NPW11.09860 NPW11.09990 NPW11.0990 NPW11	Yes	12	9/8/2016 9/8/2016 9/8/2016 7/1/2002 9/8/2016 7/1/2002 7/1/2002 8/13/2003 9/8/2016 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002
Isophorone Methylnaphthalene (1-) Kepone Methynaphthalene (1-) Methylnaphthalene (1-) Methylnaphthalene (Methyl-) Methylnaphthalene (3-) Methylnaphthalene (2-) Methylnaphthalene (2-) Methylphenol (2-) Methylphenol (2-) Methylphenol (2-) Methylphenol (2-) Methylphenol (3-) Methylphenol (4-) Naphthalene Naphthylamine (1-) Naphthylamine (1-) Naphthylamine (2-) Nitroaniline (2-) Nitroaniline (3-) Nitroaniline (3-) Nitroaniline (4-)	NPW	Applied Certified	### A S S S S S S S S S S S S S S S S S	Extract, GOMS	NPW11.09820 NPW11.09820 NPW11.09840 NPW11.09840 NPW11.09850 NPW11.09850 NPW11.09850 NPW11.09950 NPW11.09900 NPW11.09910 NPW11.09930 NPW11.09940 NPW11.09950 NPW11.09950 NPW11.09950 NPW11.09950 NPW11.09950 NPW11.09950 NPW11.09950 NPW11.09950	Yes	N	9/8/2016 9/8/2016 7/1/2002 9/8/2016 7/1/2002 7/1/2002 8/13/2003 9/8/2016 7/1/2002 7/1/2002 7/1/2002 9/8/2016 9/8/2016 9/8/2016 7/1/2002 7/1/2002



N-Nitrosodiethylamine	NPW	Certified	EPA 625	Extract. GC/MS	NPW11.10030	Yes	NJ	7/1/2004
N-Nitrosodimethylamine	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.10030	Yes	NJ	7/1/2002
N-Nitrosodimetriylamine N-Nitroso-di-n-butylamine	NPW	Certified	EPA 625	Extract, GC/MS Extract, GC/MS	NPW11.10040	Yes	NJ NJ	7/1/2002
	NPW			Extract, GC/MS		Yes		
N-Nitroso-di-n-propylamine	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.10050		NJ	7/1/2002
N-Nitrosodiphenylamine		Certified	EPA 625		NPW11.10070	Yes	NJ	7/1/2002
N-Nitrosomethylethylamine	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.10080	Yes	NJ	9/8/2016
N-Nitrosomorpholine	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.10090	Yes	NJ	9/8/2016
N-Nitrosopiperidine	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.10100	Yes	NJ	9/8/2016
N-Nitrosopymoldine	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.10110	Yes	NJ	7/1/2004
Octadecane (n-)	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.10120	Yes	NJ	8/13/2003
Pentachlorobenzene	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.10200	Yes	NJ	7/1/2004
Pentachiorophenol	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.10230	Yes	NJ	7/1/2002
Phenacetin	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.10240	Yes	NJ	9/8/2016
Phenanthrene	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.10250	Yes	NJ	7/1/2002
Phenol	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.10260	Yes	NJ	7/1/2002
Phenylethylamine (alpha, alpha-		Certified	FD1 535	Estant COLIN		Was		0100045
Dimethyl)	NPW	Centinea	EPA 625	Extract, GC/MS	NPW11.10280	Yes	NJ	9/8/2016
Phosphorothioate (O,O,O-triethyl)	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.10290	Yes	NJ	9/8/2016
Phosphorothioate (diethyl-O-2-								
pyrazinyi) [Thionazin]	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.10300	Yes	NJ	9/8/2016
Picolne (2-)	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.10310	Yes	NJ	9/8/2016
Pyrene	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.10320	Yes	NJ	7/1/2002
Pyridine	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.10320	Yes	NJ	7/1/2002
Quinoline -1-Oxide (4-Nitro)	NPW	Certified	EPA 625		NPW11.10330	Yes	NJ	9/8/2016
				Extract, GC/MS				
Safrole	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.10350	Yes	NJ	9/8/2016
Tetrachiorobenzene (1,2,4,5-)	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.10390	Yes	NJ	7/1/2004
Tetrachiorophenol (2,3,4,6-)	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.10400	Yes	NJ	12/1/2006
Toluidine (2-) (2-Methylaniline)	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.10420	Yes	NJ	9/8/2016
Toluidine (5-nitro-2-)	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.10430	Yes	NJ	9/8/2016
Trichlorobenzene (1,2,4-)	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.10440	Yes	NJ	7/1/2002
Trichlorophenol (2,4,5-)	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.10460	Yes	NJ	7/1/2002
Trichlorophenol (2,4,6-)	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.10470	Yes	NJ	7/1/2002
Trinitrobenzene (1,3,5-)	NPW	Certified	EPA 625	Extract, GC/MS	NPW11.10480	Yes	NJ	9/8/2016
TCDD (2,3,7,8-)	NPW	Certified	EPA 625 (screen only)	GC/MS, Selected Ion Monitoring	NPW11.10680	Yes	NJ	9/8/2016
Trimethylpentane (2,2,4-)	NPW	Certified	SW-846 8260B	GCMS, Extract or Dir Inj. Capillary	NPW11.13100	Yes	NJ	10/15/2010
Acetone	NPW	Certified	SW-846 8260B	GCMS, P & T or Direct Injection,	NPW11.13110	Yes	NJ	7/1/2002
	NPW							
Acetonitrile		Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.13120	Yes	NJ	7/1/2004
Acrolein	NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.13130	Yes	NJ	7/1/2002
Acrylonitrile	NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.13140	Yes	NJ	7/1/2002
Allyl chloride	NPW	Certified	SW-846 8260B	GCMS, P & T or Direct Injection,	NPW11.13150	Yes	NJ	7/1/2002
Benzene	NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.13180	Yes	NJ	7/1/2002
Benzyl chloride	NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.13190	Yes	NJ	7/1/2007
Bromobenzene	NPW	Certified	SW-846 8260B	GCMS, P & T or Direct Injection,	NPW11.13200	Yes	NJ	7/1/2005
Bromochioromethane	NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.13210	Yes	NJ	7/1/2005
Bromodichioromethane	NPW	Certified	SW-846 8260B	GCMS, P & T or Direct Injection,	NPW11.13220	Yes	NJ	7/1/2002
Bromoform	NPW	Certified	SW-846 8260B	GCMS, P & T or Direct Injection,	NPW11.13240	Yes	NJ	7/1/2002
Bromomethane	NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.13250	Yes	NJ	7/1/2002
Butadiene (2-chioro-1,3-)	NPW	Certified	SW-846 8260B	GC/MS. P & T or Direct Injection.	NPW11.13260	Yes	NJ	7/1/2007
Butanol (1-)	NPW	Certified	SW-846 8260B	GCMS, P & T or Direct Injection.	NPW11.13270	Yes	NJ	12/2/2008
Cotation (17)	NPW	Certified	SW-846 8260B	GCMS, P & T or Direct Injection,	NPW11.13290	Yes	NJ	7/1/2002
hateaut Databases (n.)	NPW		SW-846 8250B		NPW11.13230		NJ	7/1/2005
Butylbenzene (n-)		Certified		GC/MS, P & T or Direct Injection,		Yes		
Carbon disuffide	NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.13340	Yes	NJ	7/1/2002
Carbon tetrachloride	NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.13350	Yes	NJ	7/1/2002
Chlorobenzene	NPW	Certified	SW-846 8260B	GCMS, P & T or Direct Injection,	NPW11.13360	Yes	NJ	7/1/2002
Chloroethane	NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.13370	Yes	NJ	7/1/2002
Chioroethyl vinyl ether (2-)	NPW	Certified	SW-846 8260B	GCMS, P & T or Direct Injection,	NPW11.13380	Yes	NJ	7/1/2002
Chioroform	NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.13390	Yes	NJ	7/1/2002
Chloromethane	NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.13400	Yes	NJ	7/1/2002
Chiorotoluene (2-)	NPW	Certified	SW-846 8260B	GCMS, P & T or Direct Injection,	NPW11.13410	Yes	NJ	7/1/2005
Chiorotoluene (4-)	NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.13420	Yes	NJ	7/1/2005
Cyclohexane	NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.13430	Yes	NJ	12/2/2008
Cyclohexanone	NPW	Certified	SW-846 8260B	GCMS, P & T or Direct Injection.	NPW11.13440	Yes	NJ	7/1/2005
Dibromo-3-chioropropane (1,2-)	NPW	Certified	SW-846 8260B	GCMS, P & T or Direct Injection.	NPW11.13450	Yes	NJ	7/1/2004
Dibromochioromethane	NPW	Certified	SW-846 8250B	GC/MS, P & T or Direct Injection,	NPW11.13450	Yes	NJ	7/1/2002
	NPW	Certified	SW-846 8260B	GCMS, P & T or Direct Injection,	NPW11.13460 NPW11.13470	Yes	NJ	7/1/2002
Dibromoethane (1,2-) (EDB) Dibromomethane	NPW	Certified	SW-846 8260B SW-846 8260B		NPW11.13470 NPW11.13480	Yes	NJ NJ	
			011 040 02000	GCMS, P & T or Direct Injection,				12/1/2006
Dichloro-2-butene (trans-1,4-)	NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.13500	Yes	NJ	7/1/2004
Dichlorobenzene (1,2-)	NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.13510	Yes	NJ	7/1/2002
							NJ	7/1/2002
Dichlorobenzene (1,3-)	NPW	Certified	SW-846 8260B	GCMS, P & T or Direct Injection,	NPW11.13520	Yes		
Dichlorobenzene (1,4-)	NPW NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.13530	Yes	NJ	7/1/2002
Dichiorobenzene (1,4-) Dichiorodifluoromethane	NPW NPW	Certified Certified		GC/MS, P & T or Direct Injection, GC/MS, P & T or Direct Injection,	NPW11.13530 NPW11.13540	Yes Yes		7/1/2002 7/1/2002
Dichlorobenzene (1,4-)	NPW NPW NPW NPW	Certified	SW-846 8260B	GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	NPW11.13530	Yes	NJ	
Dichiorobenzene (1,4-) Dichiorodifluoromethane	NPW NPW NPW NPW	Certified Certified	SW-846 8260B SW-846 8260B	GC/MS, P & T or Direct Injection, GC/MS, P & T or Direct Injection,	NPW11.13530 NPW11.13540	Yes Yes	NJ NJ	7/1/2002
Dichiorobenzene (1,4-) Dichiorodifluoromethane Dichioroethane (1,1-)	NPW NPW NPW NPW	Certified Certified Certified	SW-846 8260B SW-846 8260B SW-846 8260B	GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	NPW11.13530 NPW11.13540 NPW11.13550	Yes Yes Yes Yes	NJ NJ	7/1/2002 7/1/2002
Dichiorobenzene (1,4-) Dichiorodifluoromethane Dichioroethane (1,1-) Dichioroethane (1,2-)	NPW NPW NPW NPW	Certified Certified Certified Certified	SW-845 8250B SW-846 8250B SW-845 8250B SW-845 8250B	GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	NPW11.13530 NPW11.13540 NPW11.13550 NPW11.13560	Yes Yes Yes Yes Yes	22 22 22 22 22	7/1/2002 7/1/2002 7/1/2002
Dichioroberzene (1,4-) Dichiorodifuoromethane Dichioroethane (1,1-) Dichioroethane (1,2-) Dichioroethene (1,1-) Dichioroethene (cls-1,2-)	NPW NPW NPW NPW NPW	Certified Certified Certified Certified Certified	SW-946 8260B SW-946 8260B SW-946 8260B SW-946 8260B SW-946 8260B	GGMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, GGMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	NPW11.13530 NPW11.13540 NPW11.13550 NPW11.13560 NPW11.13570 NPW11.13580	Yes Yes Yes Yes Yes Yes	22 22 22 22 22 22 22 22 22 22 22 22 22	7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002
Dichiorobenzene (1,4-) Dichiorodifuoromethane Dichiorethane (1,1-) Dichioroethane (1,2-) Dichioroethane (1,1-) Dichioroethene (1,1-) Dichioroethene (1,1-) Dichioroethene (1,1-) Dichioroethene (1,1-)	NPW NPW NPW NPW NPW NPW NPW	Certified Certified Certified Certified Certified Certified Certified	SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B	GGMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, GGMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	NPW11.13530 NPW11.13540 NPW11.13550 NPW11.13560 NPW11.13570 NPW11.13580 NPW11.13590	Yes Yes Yes Yes Yes Yes Yes	222222222222222222222222222222222222222	7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002
Dichiorobenzene (1,4-) Dichiorodifuoromethane Dichioroethane (1,1-) Dichioroethane (1,2-) Dichioroethene (1,1-) Dichioroethene (1,1-) Dichioroethene (1,1-) Dichioroethene (1,1-) Dichioropopane (1,2-) Dichioropopane (1,2-)	NPW NPW NPW NPW NPW NPW NPW NPW	Certified Certified Certified Certified Certified Certified Certified Certified	9W-946 9260B 9W-946 9260B 9W-946 9260B 9W-946 9260B 9W-946 9260B 9W-946 9260B 9W-946 9260B 9W-946 9260B	GGMS, P & T or Direct Injection, GGMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, GGMS, P & T or Direct Injection,	NPW11.13530 NPW11.13540 NPW11.13550 NPW11.13560 NPW11.13570 NPW11.13570 NPW11.13580 NPW11.13590 NPW11.13600	Yes Yes Yes Yes Yes Yes Yes Yes	2222222	7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002
Dichiorobenzene (1,4-) Dichiorofilusoromethane Dichioroethane (1,1-) Dichioroethane (1,2-) Dichioroethane (1,2-) Dichioroethane (1,2-) Dichioroethane (tan-1,2-) Dichioroethane (tan-1,2-) Dichioropropane (1,2-) Dichioropropane (1,3-)	NPW NPW NPW NPW NPW NPW NPW NPW NPW	Certified Certified Certified Certified Certified Certified Certified Certified Certified Certified	SW-945 8250B SW-946 8250B SW-946 8250B SW-945 8250B SW-946 8250B SW-946 8250B SW-946 8250B SW-946 8250B SW-946 8250B SW-946 8250B	GGMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	NPW11.13530 NPW11.13540 NPW11.13550 NPW11.13550 NPW11.13570 NPW11.13580 NPW11.13590 NPW11.13600 NPW11.13600	Yes	22222222	7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005
Dichioroberzene (1,4-) Dichiorodifuoromethane Dichiorodifuoromethane Dichiorothane (1,1-) Dichioropropane (1,2-) Dichioropropane (1,2-) Dichioropropane (2,2-)	NPW NPW NPW NPW NPW NPW NPW NPW NPW NPW	Certified Certified Certified Certified Certified Certified Certified Certified Certified Certified Certified Certified	SW-946 8250B SW-946 8250B SW-946 8250B SW-946 8250B SW-946 8250B SW-946 8250B SW-946 8250B SW-946 8250B SW-946 8250B SW-946 8250B	GCMS, P & T or Direct Injection,	NPW11.13530 NPW11.13540 NPW11.13550 NPW11.13550 NPW11.13570 NPW11.13580 NPW11.13580 NPW11.13590 NPW11.13600 NPW11.13610 NPW11.13610	Yes	222222222	7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005 7/1/2005
Dichioroberszene (1,4-) Dichiorodifuoromethane Dichiorethane (1,1-) Dichiorethane (1,1-) Dichiorethane (1,1-) Dichiorothane (1,1-) Dichiorothane (1,1-) Dichiorothane (1,1-) Dichiorothane (1,1-) Dichioropropane (1,2-) Dichioropropane (1,2-) Dichioropropane (2,2-) Dichioropropane (2,2-) Dichioropropane (1,1-)	NPW NPW NPW NPW NPW NPW NPW NPW NPW NPW	Certified Certified Certified Certified Certified Certified Certified Certified Certified Certified Certified Certified Certified Certified	SW-946 5250B SW-946 5250B	GGMS, P & T or Direct Injection,	NPW11.13530 NPW11.13540 NPW11.13550 NPW11.13570 NPW11.13570 NPW11.13590 NPW11.13590 NPW11.13610 NPW11.13610 NPW11.13620 NPW11.13620 NPW11.13630	Yes	22222222222	7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005 7/1/2005 7/1/2005
Dichiorobenzene (1,4-) Dichiorofilusoromethane Dichioroethane (1,1-) Dichioroethane (1,1-) Dichioroethane (1,2-) Dichioroethane (1,2-) Dichioroethane (1,2-) Dichioroethane (1,2-) Dichioropropane (1,2-) Dichioropropane (1,2-) Dichioropropane (2,2-) Dichioropropane (1,1-) Dichioropropane (1,1-) Dichioropropane (1,1-) Dichioropropene (1,1-)	NPW	Certified	SW-945 8250B SW-946 8250B SW-946 8250B SW-945 8250B SW-946 8250B	GGMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	NPW11.13530 NPW11.13540 NPW11.13550 NPW11.13550 NPW11.13570 NPW11.13570 NPW11.13590 NPW11.13600 NPW11.13610 NPW11.13630 NPW11.13630 NPW11.13630 NPW11.13630	Yes	222222222222222222222222222222222222222	7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005 7/1/2005 7/1/2005 7/1/2002
Dichioroberzene (1,4-) Dichiorodifuoromethane Dichiorothane (1,1-) Dichioropropane (1,2-) Dichioropropane (1,2-) Dichioropropane (2,2-) Dichioropropane (2,2-) Dichioropropane (2,1-) Dichioropropane (2,1-) Dichioropropane (2,1-) Dichioropropane (2,1-) Dichioropropane (2,1-)	NPW	Certified	SW-946 8250B SW-946 8250B	GGMS, P & T or Direct Injection,	NPW11.13530 NPW11.13540 NPW11.13550 NPW11.13550 NPW11.13570 NPW11.13570 NPW11.13590 NPW11.13590 NPW11.13610 NPW11.13610 NPW11.13630 NPW11.13630 NPW11.13640 NPW11.13640 NPW11.13640	Yes	N3 N	7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005
Dichioroberszene (1,4-) Dichiorodifuoromethane Dichioroethane (1,1-) Dichioropropane (1,2-) Dichioropropane (2,2-) Dichioropropane (2,2-) Dichioropropane (1,1-) Dichioropropane (1,1-) Dichioropropene (1,1-)	NPW	Certified	SW-945 8250B SW-946 5250B SW-946 5250B	GGMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	NPW11.13530 NPW11.13540 NPW11.13550 NPW11.13550 NPW11.13560 NPW11.13570 NPW11.13500 NPW11.13600 NPW11.13620 NPW11.13630 NPW11.13640 NPW11.13640 NPW11.13650 NPW11.13650 NPW11.13660	Yes	222222222222222222222222222222222222222	7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2005 7H/2005 7H/2005 7H/2005 7H/2002 7H/2002 7H/2002
Dichioroberzene (1,4-) Dichiorodifluoromethane Dichioroethane (1,1-) Dichioroethane (1,1-) Dichioroethane (1,1-) Dichioroethane (1,1-) Dichioroethane (1,1-) Dichioroethane (1,1-) Dichioropropane (1,2-) Dichioropropane (1,2-) Dichioropropane (2,2-) Dichioropropane (2,2-) Dichioropropane (2,2-) Dichioropropane (2,3-) Dichioropropane (2,3-) Dichioropropane (3,3-) Dichioropropane (3,3-) Dichioropropene (3,3-)	NPW	Certified	SW-946 8250B SW-946 8250B	GGMS, P & T or Direct Injection,	NPW11.13530 NPW11.13540 NPW11.13550 NPW11.13550 NPW11.13570 NPW11.13570 NPW11.13590 NPW11.13590 NPW11.13610 NPW11.13610 NPW11.13630 NPW11.13630 NPW11.13640 NPW11.13640 NPW11.13640	Yes	N3 N	7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2002
Dichioroberszene (1,4-) Dichioroberszene (1,4-) Dichiorothusomethane Dichiorothane (1,1-) Dichiorothane (1,1-) Dichiorothane (1,1-) Dichiorothane (1,1-) Dichiorothene (1,1-) Dichiorothene (1,1-) Dichiorothene (1,1-) Dichioropropane (1,2-) Dichioropropane (2,2-) Dichioropropane (2,2-) Dichioropropane (1,1-) Dichioropropane (1,1-) Dichioropropene (1,1-)	NPW	Certified	SW-945 8250B SW-946 5250B SW-946 5250B	GGMS, P & T or Direct Injection, GCMS, P & T or Orrect Injection, GCMS, P & T or Orrect Injection, GCMS, P & T or Orrect Injection,	NPW11.13530 NPW11.13540 NPW11.13550 NPW11.13550 NPW11.13560 NPW11.13570 NPW11.13500 NPW11.13600 NPW11.13620 NPW11.13630 NPW11.13640 NPW11.13640 NPW11.13650 NPW11.13650 NPW11.13660	Yes	222222222222222222222222222222222222222	7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2005 7H/2005 7H/2005 7H/2005 7H/2002 7H/2002 7H/2002
Dichioroberzene (1,4-) Dichiorodifuoromethane Dichiorodifuoromethane Dichioroethane (1,1-) Dichioroethane (1,1-) Dichioroethane (1,1-) Dichioroethane (1,1-) Dichioroethane (1,1-) Dichioroethane (1,1-) Dichioropropane (1,2-) Dichioropropane (1,2-) Dichioropropane (1,2-) Dichioropropane (1,2-) Dichioropropene (1,1-) Dichi	NPW	Certified	SW-945 8250B SW-946 8250B	GGMS, P & T or Direct Injection,	NPW11.13530 NPW11.13540 NPW11.13550 NPW11.13550 NPW11.13560 NPW11.13560 NPW11.13560 NPW11.13610 NPW11.13620 NPW11.13620 NPW11.13640 NPW11.13640 NPW11.13650 NPW11.13650 NPW11.13650 NPW11.13650 NPW11.13650 NPW11.13650 NPW11.13650	Yes	22 22 22 22 22 22 22 22 22 22 22 22 22	7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005
Dichioroberszene (1,4-) Dichiorodifuoromethane Dichiorethane (1,1-) Dichiorethane (1,1-) Dichiorethane (1,1-) Dichiorethane (1,1-) Dichiorothane (1,1-) Dichiorothane (1,1-) Dichioropropane (1,2-) Dichioropropane (1,2-) Dichioropropane (2,2-) Dichioropropane (2,2-) Dichioropropane (1,1-) Dichioropropane (1,1-) Dichioropropane (1,1-) Dichioropropene (1,1-) Dichioropropene (1,1-) Dichioropropene (1,1-) Dichioropropene (1,1-) Dichioropropene (1,1-) Dichioropropel (1,1-)	NPW	Certified	SW-946 8250B SW-946 8250B	GGMS, P & T or Direct Injection, GCMS, P & T or Orrect Injection, GCMS, P & T or Orrect Injection, GCMS, P & T or Orrect Injection,	NPW11.13530 NPW11.13540 NPW11.13550 NPW11.13550 NPW11.13550 NPW11.13550 NPW11.13500 NPW11.13500 NPW11.13610 NPW11.13630 NPW11.13640 NPW11.13640 NPW11.13640 NPW11.13650 NPW11.13650 NPW11.13650 NPW11.13650 NPW11.13650	Yes	222222222222222222222222222222222222222	7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2005 7H/2005 7H/2005 7H/2005 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2004 7H/2004
Dichiorobergane (1,4-) Dichiorodifluoromethane Dichiorodifluoromethane Dichiorothane (1,1-) Dichiorothane (1,1-) Dichiorothane (1,1-) Dichiorothane (1,1-) Dichiorothane (1,1-) Dichiorothane (1,1-) Dichioropropane (1,2-) Dichioropropane (1,2-) Dichioropropane (1,2-) Dichioropropane (1,2-) Dichioropropane (1,1-) Dichiorop	NPW	Certified	SW-945 8250B SW-945 8250B	GGMS, P & T or Direct Injection,	NPW11.13530 NPW11.13540 NPW11.13550 NPW11.13550 NPW11.13560 NPW11.13560 NPW11.13560 NPW11.13560 NPW11.13610 NPW11.13630 NPW11.13640 NPW11.13640 NPW11.13650 NPW11.13650 NPW11.13650 NPW11.13650 NPW11.13650 NPW11.13650 NPW11.13650	Yes	222222222222222222222222222222222222222	7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2002 7H/2004 7H/2004 7H/2004 7H/2004 7H/2004 7H/2004
Dichioroberszene (1,4-) Dichiorodifuoromethane Dichiorethane (1,1-) Dichiorethane (1,1-) Dichiorethane (1,1-) Dichiorethane (1,1-) Dichiorethane (1,1-) Dichiorothane (1,1-) Dichioropthane (1,2-) Dichioropropane (1,2-) Dichioropropane (1,2-) Dichioropropane (2,2-) Dichioropropane (2,2-) Dichioropropane (2,1-) Dichioropropane (2,1-) Dichioropropane (2,1-) Dichioropropane (2,1-) Dichioropropane (2,1-) Dichioropropane (3,1-) Dichioropro	NPW	Certified	SW-946 8250B SW-946 8250B	GGMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, GGMS, P & T or Direct Injection,	NPW11.13530 NPW11.13540 NPW11.13550 NPW11.13550 NPW11.13560 NPW11.13590 NPW11.13500 NPW11.13610 NPW11.13610 NPW11.13610 NPW11.13610 NPW11.13650 NPW11.13650 NPW11.13650 NPW11.13650 NPW11.13650 NPW11.13650 NPW11.13650 NPW11.13650 NPW11.13650 NPW11.13650 NPW11.13650 NPW11.13650 NPW11.13650 NPW11.13650 NPW11.13650 NPW11.13650 NPW11.13650 NPW11.13700	Yes	222222222222222222222222222222222222222	7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2005 7H/2005 7H/2005 7H/2002 7H/2002 7H/2002 7H/2004 7H/2004 7H/2004 7H/2004 7H/2004
Dichioroberszene (1,4-) Dichiorodifuoromethane Dichiorothane (1,1-) Dichioropropane (1,2-) Dichioropropane (1,2-) Dichioropropane (1,2-) Dichioropropane (1,2-) Dichioropropane (1,1-) Dichioropropan	NPW	Certified	SW-946 8250B SW-946 8250B	GGMS, P & T or Direct Injection,	NPW11.13530 NPW11.13540 NPW11.13550 NPW11.13550 NPW11.13570 NPW11.13570 NPW11.13590 NPW11.13600 NPW11.13600 NPW11.13600 NPW11.13600 NPW11.13620 NPW11.13650 NPW11.13650 NPW11.13670 NPW11.13670 NPW11.13670 NPW11.13670 NPW11.13670 NPW11.13670 NPW11.13710	Yes	222222222222222222222222222222222222222	7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005
Dichioroberszene (1,4-) Dichiorodifuoromethane Dichiorothane (1,1-) Dichiorothane (1,2-) Dichioropropane (1,2-) Dichioropropane (1,2-) Dichioropropane (1,2-) Dichioropropene (1,1-) Dichioropropen	NPW	Certified	SW-946 8250B	GGMS, P & T or Direct Injection,	NPW11.13530 NPW11.13540 NPW11.13550 NPW11.13550 NPW11.13570 NPW11.13590 NPW11.13590 NPW11.13590 NPW11.13600 NPW11.13630 NPW11.13640 NPW11.13640 NPW11.13650 NPW11.13660 NPW11.13670 NPW11.13670 NPW11.13670 NPW11.13670 NPW11.13730 NPW11.13730	Yes	N2 N	7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005
Dichiorobergene (1,4-) Dichiorodifluoromethane Dichiorodifluoromethane Dichiorothane (1,1-) Dichiorothane (1,1-) Dichiorothane (1,1-) Dichiorothane (1,1-) Dichiorothane (1,1-) Dichiorothane (1,2-) Dichiorothane (1,2-) Dichioropropane (1,2-) Dichioropro	NPW	Certified	SW-946 8250B	GGMS, P & T or Direct Injection,	NPW11.1350 NPW11.1350 NPW11.1350 NPW11.1350 NPW11.1350 NPW11.1350 NPW11.1360 NPW11.1360 NPW11.1360 NPW11.1360 NPW11.1360 NPW11.1360 NPW11.1361 NPW11.1361 NPW11.1361 NPW11.13670 NPW11.13670 NPW11.13670 NPW11.13670 NPW11.13710 NPW11.13710 NPW11.13710 NPW11.13710 NPW11.13710 NPW11.13710	Yes	N2 N	7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005 7/1/2005 7/1/2005 7/1/2002 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005
Dichioroberszene (1,4-) Dichiorodifuoromethane Dichiorothane (1,1-) Dichiorothane (1,2-) Dichioropropane (1,2-) Dichioropropane (1,2-) Dichioropropane (1,2-) Dichioropropene (1,1-) Dichioropropen	NPW	Certified	SW-946 8250B	GGMS, P & T or Direct Injection,	NPW11.13530 NPW11.13540 NPW11.13550 NPW11.13550 NPW11.13570 NPW11.13590 NPW11.13590 NPW11.13590 NPW11.13600 NPW11.13630 NPW11.13640 NPW11.13640 NPW11.13650 NPW11.13660 NPW11.13670 NPW11.13670 NPW11.13670 NPW11.13670 NPW11.13730 NPW11.13730	Yes	N2 N	7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005



Hexane (n-)	NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.13770	Yes	NJ	1/23/2012
Hexanone (2-)	NPW	Certified	SW-846 8260B	GCMS, P & T or Direct Injection,	NPW11.13780	Yes	NJ	7/1/2002
Iso-butyl alcohol	NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.13790	Yes	NJ	7/1/2005
Isopropylbenzene	NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.13820	Yes	NJ	7/1/2005
Isopropyltoluene (4-)	NPW	Certified	SW-846 8260B	GCMS, P & T or Direct Injection,	NPW11.13830	Yes	NJ	7/1/2005
Methacrylonitrile	NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.13840	Yes	NJ	7/1/2005
Methyl acetate	NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.13850	Yes	NJ	12/2/2008
Methyl acrylate	NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.13860	Yes	NJ	7/1/2007
Methyl lodide	NPW	Certified	SW-846 8260B	GCMS, P & T or Direct Injection,	NPW11.13870	Yes	NJ	7/1/2004
Methyl methacrylate	NPW	Certified	SW-846 8260B	GCMS, P & T or Direct Injection,	NPW11.13880	Yes	NJ	7/1/2005
Methyl tert-butyl ether	NPW	Certified	SW-846 8260B	GCMS, P & T or Direct Injection,	NPW11.13890	Yes	NJ	7/1/2002
Methylcyclohexane	NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.13900	Yes	NJ	4/6/2010
Methylene chloride	NPW		SW-846 8260B	GC/MS, P & T or Direct Injection,		Yes		711/2002
(Dichloromethane)	MEAN	Certified	SW-846 8260B	Capillary	NPW11.13910	165	NJ	7/1/2002
Naphthalene	NPW	Certified	SW-846 8260B	GCMS, P & T or Direct Injection,	NPW11.13940	Yes	NJ	7/1/2002
Nitropropane (2-)	NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.13960	Yes	NJ	12/2/2008
Pentachioroethane	NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.13990	Yes	NJ	7/1/2005
Pentanone (4-methyl-2-) (MIBK)	NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.14010	Yes	NJ	7/1/2002
Propionitrie	NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.14020	Yes	NJ	7/1/2005
Propylbenzene (n-)	NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.14030	Yes	NJ	7/1/2005
Sec-butylbenzene	NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.14040	Yes	NJ	7/1/2005
Styrene	NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.14050	Yes	NJ	7/1/2002
tert-Amylmethyl ether [TAME]	NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.14060	Yes	NJ	12/1/2006
Tert-butyl alcohol	NPW	Certified	SW-846 8260B	GCMS, P & T or Direct Injection,	NPW11.14070	Yes	NJ	7/1/2004
Tert-butylbenzene	NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.14080	Yes	NJ	7/1/2005
Tetrachioroethane (1,1,1,2-)	NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.14090	Yes	NJ	7/1/2002
Tetrachioroethane (1,1,2,2-)	NPW	Certified	SW-846 8260B	GCMS, P & T or Direct Injection,	NPW11.14100	Yes	NJ	7/1/2002
Tetrachioroethene	NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.14110	Yes	NJ	7/1/2002
Tetrahydrofuran	NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.14120	Yes	NJ	7/1/2005
Toluene	NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.14130	Yes	NJ	7/1/2002
Trichloro (1,1,2-) trifluoroethane	-			GC/MS, P & T or Direct Injection,	1			
(1,2,2-)	NPW	Certified	SW-846 8260B	Capillary	NPW11.14150	Yes	NJ	7/1/2004
Trichlorobenzene (1,2,3-)	NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.14160	Yes	NJ	7/1/2005
Trichlorobenzene (1,2,3-)	NPW	Certified	SW-846 8250B	GCMS, P & T or Direct Injection,	NPW11.14170	Yes	NJ	7/1/2003
Trichloroethane (1,1,1-)	NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.14180	Yes	NJ	7/1/2002
Trichloroethane (1.1.2-)	NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.14190	Yes	NJ	7/1/2002
Trichlomethene	NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.14200	Yes	NJ	7/1/2002
Trichiorofluoromethane	NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.14210	Yes	NJ	7/1/2002
Trichloropropane (1,2,3-)	NPW	Certified	SW-846 8260B	GCMS, P & T or Direct Injection,	NPW11.14220	Yes	NJ	7/1/2004
Trimethylbenzene (1,2,4-)	NPW	Certified	SW-846 8260B	GCMS, P & T or Direct Injection,	NPW11.14240	Yes	NJ	7/1/2005
Trimethylbenzene (1,3,5-)	NPW	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	NPW11.14250	Yes	NJ	7/1/2005
	NPW	Certified	SW-846 8250B		NPW11.14250	Yes	NJ	7/1/2005
Vinyl acetate	NPW	Certified	SW-846 8260B	GCMS, P & T or Direct Injection,	NPW11.14260 NPW11.14270	Yes	NJ	7/1/2004
Vinyl chloride	NPW	Certified	SW-846 8260B	GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	NPW11.14270	Yes		
Xylene (m-)	NPW			GC/MS, P & T or Direct Injection,	NPW11.14280	Yes	NJ	7/1/2005
Xylene (o-)		Certified	SW-846 8260B				NJ	7/1/2005
Xylene (p-)	NPW NPW	Certified Certified	SW-846 8260B SW-846 8260B	GCMS, P & T or Direct Injection,	NPW11.14300	Yes	NJ	7/1/2005
Xylenes (total)	NPW			GCMS, P & T or Direct Injection,	NPW11.14310	Yes	NJ	7/1/2002
Trimethylpentane (2,2,4-)		Certified	SW-846 8260C	GC/MS, Extract or Dir Inj, Capillary	NPW11.14320	Yes	NJ	10/15/2010
Acetone	NPW	Certified	SW-846 8260C	GCMS, P & T or Direct Injection,	NPW11.14330	Yes	NJ	7/1/2002
Acetonitrile	NPW	Certified	SW-846 8260C	GCMS, P & T or Direct Injection,	NPW11.14340	Yes	NJ	7/1/2004
Acrolein	NPW	Certified	SW-846 8260C	GC/MS, P & T or Direct Injection,	NPW11.14350	Yes	NJ	7/1/2002
Acrylonitrile	NPW	Certified	SW-846 8260C	GC/MS, P & T or Direct Injection,	NPW11.14360	Yes	NJ	7/1/2002
Allyl chloride	NPW	Certified	SW-846 8260C	GC/MS, P & T or Direct Injection,	NPW11.14370	Yes	NJ	7/1/2005
Amyl alcohol (t-)	NPW	Certified	SW-846 8260C	GCMS, P & T or Direct Injection,	NPW11.14380	Yes	NJ	1/18/2017
Benzene	NPW	Certified	SW-846 8260C	GC/MS, P & T or Direct Injection,	NPW11.14390	Yes	NJ	7/1/2002
Benzyl chloride	NPW	Certified	SW-846 8260C	GC/MS, P & T or Direct Injection,	NPW11.14400	Yes	NJ	7/1/2007
Bromobenzene				GC/MS, P & T or Direct Injection,	NPW11.14410	Yes	NJ	7/1/2005
Bromochioromethane	NPW	Certified	SW-846 8260C				146	
	NPW	Certified Certified	SW-846 8260C	GC/MS, P & T or Direct Injection,	NPW11.14420	Yes	NJ	7/1/2005
Bromodichioromethane	NPW NPW	Certified Certified	SW-846 8260C SW-846 8260C	GCMS, P & T or Direct Injection,	NPW11.14420 NPW11.14430	Yes	NJ NJ	7/1/2002
Bromoform	NPW NPW NPW	Certified Certified Certified	SW-846 8260C SW-846 8260C SW-846 8260C	GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	NPW11.14420 NPW11.14430 NPW11.14450	Yes Yes	NJ NJ NJ	7/1/2002 7/1/2002
Bromoform Bromomethane	NPW NPW NPW	Certified Certified Certified Certified	SW-846 8260C SW-846 8260C SW-846 8260C SW-846 8260C	GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	NPW11.14420 NPW11.14430 NPW11.14450 NPW11.14460	Yes Yes Yes	22 23 23 23	7/1/2002 7/1/2002 7/1/2002
Bromoform Bromomethane Butadiene (2-chioro-1,3-)	NPW NPW NPW NPW	Certified Certified Certified Certified Certified	SW-846 8260C SW-846 8260C SW-846 8260C SW-848 8260C SW-846 8260C	GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	NPW11.14420 NPW11.14430 NPW11.14450 NPW11.14460 NPW11.14470	Yes Yes Yes Yes	22 22 23 23 23 23	7/1/2002 7/1/2002 7/1/2002 7/1/2007
Bromoform Bromomethane Butadlene (2-chloro-1,3-) Butanol (1-)	NPW NPW NPW NPW NPW	Certified Certified Certified Certified Certified Certified	SW-846 8250C SW-846 8250C SW-846 8250C SW-846 8250C SW-846 8250C SW-846 8250C	GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	NPW11.14420 NPW11.14430 NPW11.14450 NPW11.14460 NPW11.14470 NPW11.14480	Yes Yes Yes Yes Yes	22 22 22 23 23 23 23 23	7/1/2002 7/1/2002 7/1/2002 7/1/2007 12/2/2008
Bromoform Bromomethane Butadlene (2-chloro-1,3-) Butanol (1-) Butanol (3,3-D(methyl-1-)	NPW NPW NPW NPW NPW NPW	Certified Certified Certified Certified Certified Certified Certified	SW-945 8250C SW-945 8250C SW-945 8250C SW-945 8250C SW-945 8250C SW-945 8250C SW-945 8250C	GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	NPW11.14420 NPW11.14430 NPW11.14450 NPW11.14460 NPW11.14470 NPW11.14490 NPW11.14490	Yes Yes Yes Yes Yes Yes	N2 N2 N2 N2 N2 N2 N2 N2	7/1/2002 7/1/2002 7/1/2002 7/1/2007 12/2/2008 9/8/2016
Bromoform Bromomethane Butadlene (2-chloro-1,3-) Butanol (1-)	NPW NPW NPW NPW NPW NPW NPW	Certified Certified Certified Certified Certified Certified Certified Certified	SW-946 9250C SW-946 9250C SW-946 9250C SW-946 9250C SW-946 9250C SW-946 9250C SW-946 9250C SW-946 9250C	GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	NPW11.14420 NPW11.14430 NPW11.14450 NPW11.14460 NPW11.14470 NPW11.14480 NPW11.14490 NPW11.14500	Yes Yes Yes Yes Yes Yes Yes	2222222	7/1/2002 7/1/2002 7/1/2002 7/1/2007 12/2/2008 9/8/2016 7/1/2002
Bromoform Bromomethane Butadiene (2-chloro-1,3-) Butanol (1-) Butanol (3,3-Dimethyl-1-) Butanol (2-) Pinchyl-1-) Butanol (3-) Butanol (	NPW NPW NPW NPW NPW NPW NPW NPW	Certified Certified Certified Certified Certified Certified Certified Certified Certified	SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C	GGMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	NPW11.14420 NPW11.14430 NPW11.14450 NPW11.14450 NPW11.14450 NPW11.14470 NPW11.14490 NPW11.14500 NPW11.14510	Yes	222222222222222222222222222222222222222	7/1/2002 7/1/2002 7/1/2002 7/1/2007 12/2/2008 9/8/2016 7/1/2002 9/8/2016
Bromoform Bromomethane Butadiene (2-chioro-1,3-) Butanol (1-) Butanol (3,3-Dimethyl-1-) Catanone (2-) pre-tyr-chyl Butyl formate (1-) Butyl formate (n-)	NPW NPW NPW NPW NPW NPW NPW NPW NPW	Certified Certified Certified Certified Certified Certified Certified Certified Certified Certified Certified Certified	SW-946 9250C SW-946 9250C SW-946 9250C SW-946 9250C SW-946 9250C SW-946 9250C SW-946 9250C SW-946 9250C	GCMS, P & T or Direct Injection,	NPW11.14420 NPW11.14430 NPW11.14450 NPW11.14450 NPW11.14470 NPW11.14490 NPW11.14490 NPW11.14510 NPW11.14510 NPW11.14510	Yes Yes Yes Yes Yes Yes Yes	2222222	7/1/2002 7/1/2002 7/1/2002 7/1/2007 12/2/2008 9/8/2016 7/1/2002 9/8/2016 7/1/2005
Bromoform Bromomethane Butadiene (2-chloro-1,3-) Butanoi (1-) Butanoi (3,3-Dimethyl-1-) Butanoi (2-) phichyl-1-) Butanoi (3-) Butanoi (	NPW NPW NPW NPW NPW NPW NPW NPW	Certified Certified Certified Certified Certified Certified Certified Certified Certified	SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C	GGMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	NPW11.14420 NPW11.14430 NPW11.14450 NPW11.14450 NPW11.14450 NPW11.14470 NPW11.14490 NPW11.14500 NPW11.14510	Yes	222222222222222222222222222222222222222	7/1/2002 7/1/2002 7/1/2002 7/1/2007 12/2/2008 9/8/2016 7/1/2002 9/8/2016
Bromoform Bromomethane Butadiene (2-chioro-1,3-) Butanol (1-) Butanol (3,3-Dimethyl-1-) countries (2-) pre-tyr-countries Butyl formate (b) Butyl formate (n-)	NPW NPW NPW NPW NPW NPW NPW NPW NPW NPW	Certified Certified Certified Certified Certified Certified Certified Certified Certified Certified Certified Certified	SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C	GGMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	NPW11.14420 NPW11.14430 NPW11.14450 NPW11.14450 NPW11.14470 NPW11.14490 NPW11.14490 NPW11.14510 NPW11.14510 NPW11.14510	Yes	222222222222222222222222222222222222222	7/1/2002 7/1/2002 7/1/2002 7/1/2007 12/2/2008 9/8/2016 7/1/2002 9/8/2016 7/1/2005
Bromotom Bromomethane Butadiene (2-chioro-1,3-) Butanoi (1-) Butanoi (1-) Butanoi (3,3-Oimethyl-1-) Sudanoi (3,3-Oimethyl-1-) Butyl formate (1-) Butyl formate (1-) Carbon disuffide	NPW	Certified	SW-946 8250C SW-946 8250C	GCMS, P & T or Direct Injection,	NPW11.14420 NPW11.14430 NPW11.14450 NPW11.14470 NPW11.14470 NPW11.14480 NPW11.14490 NPW11.14510 NPW11.14540 NPW11.14540 NPW11.14540 NPW11.14540	Yes	222222222222222222222222222222222222222	7/1/2002 7/1/2002 7/1/2002 7/1/2007 12/2/2008 9/8/2016 7/1/2002 9/8/2016 7/1/2005 7/1/2005
Bromomethane Butadiene (2-chioro-1,3-) Butanoi (1-) Butanoi (1-) Butanoi (3-)-Olmethyl-1-) posurioni-(2-)-y mestyr-tory Butyl formate (h-) Butylberuzene (n-) Carbon disuffide Carbon tetrachioride	NPW	Certified	SW-946 8250C SW-946 8250C	GGMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	NPW11.14420 NPW11.14430 NPW11.14450 NPW11.14450 NPW11.14470 NPW11.14490 NPW11.14490 NPW11.14510 NPW11.14510 NPW11.14550 NPW11.14550 NPW11.14550 NPW11.14550	Yes	222222222222222222222222222222222222222	7/1/2002 7/1/2002 7/1/2002 7/1/2007 12/2/2008 9/8/2016 7/1/2002 9/8/2016 7/1/2002 7/1/2002 7/1/2002
Bromoform  Bromomethane  Butadiene (2-chioro-1,3-)  Butanoi (1-)  Butanoi (1-)  Butanoi (3-)  Butanoi (3-)  Butanoi (3-)  Butylormate (1-)  Carbon disuffide  Carbon tetrachioride  Chioroberzene	NPW	Certified	SW-946 8250C SW-945 8250C SW-946 8250C	GGMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, GGMS, P & T or Direct Injection,	NPW11.14420 NPW11.14450 NPW11.14450 NPW11.14450 NPW11.14460 NPW11.14470 NPW11.14490 NPW11.14490 NPW11.14510 NPW11.14510 NPW11.14510 NPW11.14550 NPW11.14550 NPW11.14550	Yes	22 22 22 23 23 23 23 23 23 23 23 23 23 2	7/1/2002 7/1/2002 7/1/2002 7/1/2007 12/2/2008 9/8/2016 7/1/2002 9/8/2016 7/1/2002 7/1/2002 7/1/2002
Bromortom Bromorethane Butadiene (2-chioro-1,3-) Butano (1-) Butyli formate (t-) Butyli formate (t-) Butylibertzene (n-) Carbon disuffide Carbon tetrachioride Chiorobertzene Chiorobertzene	NPW	Certified	SW-946 8250C SW-946 8250C	GGMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	NPW11.14420 NPW11.14430 NPW11.14450 NPW11.14460 NPW11.14490 NPW11.14490 NPW11.14500 NPW11.14500 NPW11.14510 NPW11.14500 NPW11.14500 NPW11.14540 NPW11.14550 NPW11.14550 NPW11.14550 NPW11.14550 NPW11.14550	Yes	222222222222222222222222222222222222222	7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 12/2/2008 9/8/2016 7/1/2002 9/8/2016 7/1/2002 7/1/2002 7/1/2002 7/1/2002
Bromordom Bromornethane Butadiene (2-chioro-1,3-) Butanoi (1-) Butanoi (3,3-Climethyl-1-) butanoi (3,3-Climethyl-1-) butanoi (3,3-Climethyl-1-) Butyl formate (1-) Butyl formate (1-) Carbon disuffide Carbon tetrachiorie Chiorotehane Chioroethane Chioroethyl vinyl ether (2-)	NPW	Certified	SW-946 8250C	GGMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, GGMS, P & T or Direct Injection,	NPW11.14420 NPW11.14430 NPW11.14450 NPW11.14450 NPW11.14450 NPW11.14490 NPW11.14510 NPW11.14510 NPW11.14510 NPW11.14550 NPW11.14550 NPW11.14550 NPW11.14550 NPW11.14550 NPW11.14550 NPW11.14550 NPW11.14550	Yes	222222222222222222222222222222222222222	7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2007 12/2/2008 9/8/2016 7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002
Bromoform  Bromomethane  Butadiene (2-chioro-1,3-)  Butanoi (1-)  Butanoi (1-)  Butanoi (3-)  Butanoi (3-)  Butanoi (3-)  Butylenzene (n-)  Carbon disuffide  Carbon tetrachioride  Chiorobergane  Chioroethane  Chioroethane  Chioroethyn (vnyl ether (2-)	NPW	Certified	SW-946 8250C SW-946 8250C	GGMS, P & T or Direct Injection, SGMS, P & T or Direct Injection, GGMS, P & T or Direct Injection,	NPW11.14420 NPW11.14430 NPW11.14450 NPW11.14450 NPW11.14450 NPW11.14450 NPW11.14450 NPW11.14510 NPW11.14510 NPW11.14510 NPW11.14550 NPW11.14550 NPW11.14550 NPW11.14550 NPW11.14560 NPW11.14560 NPW11.14560 NPW11.14560 NPW11.14560 NPW11.14560 NPW11.14560 NPW11.14560 NPW11.14560 NPW11.14560 NPW11.14560 NPW11.14560 NPW11.14560	Yes	222222222222222222222222222222222222222	7/1/2002 7/1/2002 7/1/2002 7/1/2007 12/2/2008 9/8/2016 7/1/2002 9/8/2016 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002
Bromorform Bromomethane Butadiene (2-chioro-1,3-) Butanol (1-) Butanol (1-) Butanol (1-) Butanol (1-) Buty formate (1-) Buty formate (1-) Buty formate (1-) Carbon disuffide Carbon disuffide Chioroethane Chioroethane Chioroethane Chioroethane	NPW	Certified	SW-946 8250C	GGMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	NPW11.14420 NPW11.14430 NPW11.14450 NPW11.14460 NPW11.14460 NPW11.14470 NPW11.14480 NPW11.14510 NPW11.14510 NPW11.14510 NPW11.14510 NPW11.14560 NPW11.14560 NPW11.14580 NPW11.14590 NPW11.14590 NPW11.14590 NPW11.14590 NPW11.14590 NPW11.14510	Yes	222222222222222222222222222222222222222	7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 9/8/2016 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002
Bromoform Bromomethane Butadiene (2-chioro-1,3-) Butanol (1-) Butanol	NPW	Certified	SW-946 8250C	GGMS, P & T or Direct Injection, GGMS, P & T or Orbect Injection, GGMS, P & T or Orbect Injection,	NPW11.14420 NPW11.14430 NPW11.14450 NPW11.14460 NPW11.14460 NPW11.14460 NPW11.14500	Yes	222222222222222222222222222222222222222	7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 9/8/2016 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002
Bromoform Bromomethane Sutadiene (2-chioro-1,2-) Butanol (1-) Butyli formate (1-) Butyliserazene (n-) Carbon disutfide Carbon disutfide Chioroberazene Chioroettyl vinyl ether (2-) Chiorothyn Chioromethane Chioroettyl vinyl ether (2-) Chiorothuene (2-) Chiorotoluene (2-) Chiorotoluene (2-)	NPW	Certified	SW-946 8350C SW-946 8350C	GGMS, P & T or Direct Injection, SCMS, P & T or Direct Injection, GGMS, P & T or Direct Injection,	NPW11.14420 NPW11.14430 NPW11.14450 NPW11.14450 NPW11.14450 NPW11.14490 NPW11.14490 NPW11.14510 NPW11.14510 NPW11.14550 NPW11.14550 NPW11.14550 NPW11.14580 NPW11.14580 NPW11.14580 NPW11.14580 NPW11.14590 NPW11.14590 NPW11.14590 NPW11.14590 NPW11.14590 NPW11.14590 NPW11.14530 NPW11.14530	Yes	222222222222222222222222222222222222222	7/1/2002 7/1/2002 7/1/2002 7/1/2007 12/2/2008 5/8/2016 7/1/2002 5/8/2016 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002
Bromordom Bromomethane Butadiene (2-chioro-1,3-) Butanol (1-) Butanol	NPW	Certified	SW-946 8250C	GGMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	NPW11.14420 NPW11.14430 NPW11.14450 NPW11.14450 NPW11.14450 NPW11.14500 NPW11.14500 NPW11.14510 NPW11.14510 NPW11.14510 NPW11.14510 NPW11.14500	Yes	222222222222222222222222222222222222222	71/2002 71/2002 71/2002 71/2000 71/2000 9/8/2016 71/2002
Bromoform Bromomethane Butadiene (2-chioro-1,3-) Butano (1-) Butano (1,3-) Climethyl-1-) Butano (1,3-) Climethyl-1-) Butyl formatic (1-) Butyl formatic (1-) Butyliberazene (n-) Carbon disuride Carbon disuride Carbon disuride Chioroberazene Chioroethyl vinyl ether (2-) Chioroform Chioromethane Chioroethyl vinyl ether (2-) Chiorotoluene (2-) Chiorotoluene (3-) Chiorotoluene (4-) Cyciohexanoe	NPW	Certified	SW-946 8250C	GGMS, P & T or Direct Injection,	NPW11.14420 NPW11.14430 NPW11.14450 NPW11.14450 NPW11.14450 NPW11.14450 NPW11.14450 NPW11.14450 NPW11.14500	Yes	222222222222222222222222222222222222222	7/1/2002 7/1/2002 7/1/2002 7/1/2009 12/2/2009 9/8/2016 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2003 7/1/2004
Bromortom Bromomethane Butadiene (2-chioro-1,3-) Butanol (1-) Carbon disudide Carbon tebraciene Chioroethane Chioroethane Chioroethane Chioroethane Chioroethane Chiorotoluene (2-) Chiorotoluene (2-) Chiorotoluene (2-) Chiorotoluene (3-) Cytiohexanone Dibromo-3-chioropropane (1,2-) Dibromochioromethane	NPW	Certified	SW-946 8250C	GGMS, P & T or Direct Injection,	NPW11.14420 NPW11.14430 NPW11.14450 NPW11.14450 NPW11.14450 NPW11.14450 NPW11.14450 NPW11.14500 NPW11.14510 NPW11.14510 NPW11.14510 NPW11.14570	Yes	222222222222222222222222222222222222222	7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2008 9/8/2016 7/1/2002 9/8/2016 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2003 7/1/2003 7/1/2003 7/1/2003 7/1/2003
Bromoform Bromomethane Sutadiene (2-chioro-1,3-) Butanol (1-) Butanol (1-) Butanol (1-) Butanol (1-) Butanol (1-) Butanol (1-) Butyl formate (1-) Butyl formate (1-) Butyl berazene (1-) Carbon disuffide Carbon disuffide Chiorobenzene Chioroethyl vinyl ether (2-) Chioromethyl vinyl ether (2-) Chioroethyl vinyl ether (2-) Chioroethyl (1-) Chiorobutene (2-) Chiorobutene (2-) Chiorobutene (2-) Chiorobutene (3-) Dibromochromethyl (1-2-)	NPW	Certified	SW-946 8250C SW-945 8250C SW-946 8250C	GGMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, GGMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	NPW11.14420 NPW11.14430 NPW11.14450 NPW11.14460 NPW11.14460 NPW11.14460 NPW11.14460 NPW11.14500 NPW11.14500 NPW11.14500 NPW11.14510 NPW11.14500	Yes	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7H2002 7H2007 7H2007 7H2007 7H2007 7H2007 7H2007 12/2008 98/2016 7H2007 7H2002 7H2002 7H2002 7H2002 7H2002 7H2002 7H2002 7H2005
Bromorform Bromomethane Butadiene (2-chioro-1,3-) Butanol (1-) Butanol	NPW	Certified	SW-946 8250C	GGMS, P & T or Direct Injection,	NPW11.14420 NPW11.14430 NPW11.14450 NPW11.14450 NPW11.14450 NPW11.14500 NPW11.14500 NPW11.14500 NPW11.14500 NPW11.14510 NPW11.14510 NPW11.14510 NPW11.14510 NPW11.14500	Yes	222222222222222222222222222222222222222	7/H/2002 7/H/2002 7/H/2002 7/H/2002 7/H/2002 7/H/2002 12/2/2008 9/8/2016 7/H/2002 7/H/2003 7/H/2005
Bromoform Bromomethane Butadiene (2-chioro-1,2-) Butanol (1-) Butyli formate (1-) Butyli formate (1-) Butyli formate (1-) Carbon disuffide Carbon disuffide Carbon disuffide Carbon disuffide Carbon disuffide Chiorotenzene Chioroettry (1-) Chiorotentyl vinyl ether (2-) Chiorotoluene (2-) Chiorotoluene (2-) Chiorotoluene (2-) Chiorotoluene (4-) Cyciohexanoe Dibromo-3-chioropropane (1,2-) Dibromomethane Dibromomethane Dibromomethane (1,2-) (EDB) Dibromomethane (1,2-) (EDB)	NPW	Certified	SW-946 8250C	GGMS, P & T or Direct Injection,	NPW11.14420 NPW11.14430 NPW11.14450 NPW11.14450 NPW11.14450 NPW11.14450 NPW11.1450	Yes	222222222222222222222222222222222222222	7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2007 7/1/2007 7/1/2002 9/8/2016 7/1/2002 7/1/2004 7/1/2004 7/1/2004 7/1/2004 7/1/2004 7/1/2004 7/1/2004 7/1/2004
Bromoform Bromomethane Butadiene (2-chioro-1,3-) Butanol (1-) Butanol (1-) Butanol (1-) Butanol (1-) Butanol (1-) Butylberuzene (n-) Carbon disuffide Carbon disuffide Carbon disuffide Chiorobethane Chioroethane Chioroethane Chioroethane Chiorothane Chiorobethane Chioroethane Ch	NPW	Certified	SW-946 8250C	GGMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	NPW11.14420 NPW11.14430 NPW11.14450 NPW11.14450 NPW11.14450 NPW11.14500	Yes	222222222222222222222222222222222222222	7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 9/1/2002 9/1/2002 7/1/2002
Bromoform Bromomethane Butadiene (2-chioro-1,3-) Butano (1-) Butyliformatic (1-) Butyliformatic (1-) Butyliformatic (1-) Butyliformatic (1-) Butyliformatic (1-) Butyliformatic (1-) Charbon dissuffide Carbon dissuffide Carbon dissuffide Carbon dissuffide Carbon dissuffide Carbon tebrachioride Chiorotentyl vinyl ether (2-) Chiorotentyl vinyl ether (2-) Chiorotentyl vinyl ether (2-) Chiorotoluene (3-) Chiorotoluene (3-) Chiorotoluene (1-) Dibromo-3-chioropropane (1,2-) Dibromomethane Dibromoethane (1,2-) (EDB) Dibromomethane Dibromoethane (1,2-) Dichiorote-2-butene (trans-1,4-) Dichioroterizene (1,2-)	NPW	Certified	SW-946 8250C	GGMS, P & T or Direct Injection,	NPW11.14420 NPW11.14430 NPW11.14450 NPW11.14450 NPW11.14450 NPW11.14450 NPW11.14450 NPW11.1450 NPW11.1450 NPW11.1450 NPW11.1450 NPW11.14510 NPW11.14570 NPW11.14740	Yes	222222222222222222222222222222222222222	7/1/2002 7/1/2007 7/1/2007 7/1/2007 7/1/2007 7/1/2007 7/1/2007 7/1/2007 9/1/2007 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005
Bromoform Bromomethane Butadiene (2-chioro-1,3-) Butano (1-) Butano (1-) Butano (1-) Butano (1-) Butano (1-) Butyliberuse Butyliberuse Butyliberuse Butyliberuse Butyliberuse Butyliberuse Carbon disuffde Carbon disuffde Carbon disuffde Chioroberuse Chioroberuse Chiorothyl vinyl ether (2-) Chiorothyn Chioroth	NPW	Certified	SW-946 8250C	GGMS, P & T or Direct Injection,	NPW11.14420 NPW11.14430 NPW11.14450 NPW11.14450 NPW11.14450 NPW11.1450 NPW11.1450 NPW11.1450 NPW11.14510	Yes	222222222222222222222222222222222222222	7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2007 1/2/2008 9/8/2016 7/1/2002 9/8/2016 7/1/2002
Bromortom Bromomethane Butadiene (2-chioro-1,3-) Butanol (1-) Butanol	NPW	Certified	SW-946 8350C	GGMS, P & T or Direct Injection,	NPW11.14420 NPW11.14430 NPW11.14450 NPW11.14450 NPW11.14450 NPW11.14450 NPW11.1450 NPW11.1450 NPW11.1450 NPW11.1450 NPW11.14510 NPW11.14510 NPW11.14510 NPW11.14500	Yes	222222222222222222222222222222222222222	7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 9/8/2016 7/1/2002 9/8/2016 7/1/2002
Bromortom Bromomethane Butadiene (2-chioro-1,3-) Butanoi (1-) Butyl formate (1-) Butyl formate (1-) Butyl bertzene (1-) Garbon disuffide Carbon disuffide Carbon disuffide Chiorobenzene Chioroethy (1-) Dibromochioromethy (1-) Dibromochioromethy (1-) Dibromochioromethane Dibromochioromethane Dibromochioromethane Dibromochioromethane Dibromochioromethane Dichioro-2-butanoi (1-2-) Dichiorobenzene (1,2-) Dichiorobenzene (1,3-) Dichiorobenzene (1,3-) Dichiorobenzene (1,4-) Dichiorodiruoromethane Dichiorodiruoromethane	NPW	Certified	SW-946 8350C	GGMS, P & T or Direct Injection,	NPW11.14420 NPW11.14430 NPW11.14450 NPW11.14460 NPW11.14460 NPW11.14460 NPW11.14460 NPW11.1450 NPW11.1470 NPW11.1470 NPW11.1470 NPW11.1470 NPW11.1470 NPW11.1470 NPW11.1470 NPW11.1470 NPW11.1470	Yes	222222222222222222222222222222222222222	7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2007 7/1/2007 1/2/2009 9/8/2016 7/1/2002 9/8/2016 7/1/2002
Bromortom Bromomethane Butadiene (2-chioro-1,3-) Butanol (1-) Butanol (1-) Butanol (1-) Butanol (3,3-Climethyl-1-) rounnome (x-) pricary cory: Butanol (3,3-Climethyl-1-) Butyl-formate (t-) Butyl-formate (t-) Butyl-formate (t-) Butyl-formate (t-) Carbon disuffide Carbon disuffide Carbon disuffide Chiorotehane Chiorotehane Chiorotehane Chiorotehane Chiorotehane Chiorotehane Chiorotehane Chiorotehane (1-) Chiorotehane Chiorotehane (1-) Dibromo-3-chioropropane (1,2-) Dibromochioromethane Dibromo-2-butene (than-1,4-) Dichiorotehane (1,2-)	NPW	Certified	SW-946 8250C	GGMS, P & T or Direct Injection, GGMS, P & T or Or Direct Injection,	NPW11.14420 NPW11.14430 NPW11.14450 NPW11.14450 NPW11.14450 NPW11.14500 NPW11.14700	Yes	222222222222222222222222222222222222222	7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 9/8/2016 9/8/2016 7/1/2002
Bromortom Bromorethane Butadiene (2-chioro-1,3-) Butanoi (1-) Butyli formate (1-) Butyli formate (1-) Carbon disuffide Carbon disuffide Carbon disuffide Carbon disuffide Chiorobenzene Chioroethy vinyl ether (2-) Chioroethy vinyl ether (2-) Chioroethy vinyl ether (2-) Chiorotome Chioromethane Chioroethy (2-) Chiorotoluene (2-) Chiorotoluene (2-) Chiorotoluene (3-) Dibromorbane Dibromo-3-chioropropane (1,2-) Dibromorbane Dibromorbane Dibromorbane Dibromorbane Dibromorbane Dibromorbane Dibromorbane Dichioro-2-udene (1,3-) Dichiorobenzene (1,3-) Dichiorobenzene (1,3-) Dichiorobenzene (1,3-) Dichiorobenzene (1,3-) Dichiorobenzene (1,3-) Dichiorobenzene (1,3-) Dichioroethane (1,1-) Dichioroethane (1,1-)	NPW	Certified	SW-946 \$350C SW-945 \$350C SW-946 \$350C	GGMS, P & T or Direct Injection,	NPW11.14420 NPW11.14430 NPW11.14450 NPW11.14450 NPW11.14450 NPW11.14450 NPW11.14450 NPW11.14450 NPW11.14500 NPW11.14500 NPW11.14500 NPW11.14510 NPW11.14500	Yes	222222222222222222222222222222222222222	7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 9/8/2016 7/1/2002 9/8/2016 7/1/2002
Bromortom Bromomethane Sutadiene (2-chioro-1,3-) Butanoi (1-) Butyl formate Butyl formate Butyl formate Carbon disuffide Carbon disuffide Carbon disuffide Chioroberane Chioroberane Chiorotethyl vinyl ether (2-) Chiorotem Chiorotethyl vinyl ether (2-) Chiorotem Chioroteliane Chioroteliane Chioroteliane Chioroteliane Chioroteliane Chioroteliane (1-) Chioroteliane (1-) Chioroteliane (1-) Dibromomethane Dibromomethane Dibromomethane Dibromomethane Dichiorote-z-butene (1,2-) Dichioroterizene (1,2-) Dichioroterizene (1,2-) Dichioroteliane (1,2-)	NPW   NPW	Certified	SW-946 8250C	GGMS, P & T or Direct Injection,	NPW11.14420 NPW11.14430 NPW11.14450 NPW11.14450 NPW11.14450 NPW11.14500 NPW11.14700	Yes	222222222222222222222222222222222222222	7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 5/8/2016 5/8/2016 7/1/2002 5/8/2016 7/1/2002
Bromortom Bromorethane Butadiene (2-chioro-1,3-) Butanoi (1-) Butyli formate (1-) Butyli formate (1-) Carbon disuffide Carbon disuffide Carbon disuffide Carbon disuffide Chiorobenzene Chioroethy vinyl ether (2-) Chioroethy vinyl ether (2-) Chioroethy vinyl ether (2-) Chiorotome Chioromethane Chioroethy (2-) Chiorotoluene (2-) Chiorotoluene (2-) Chiorotoluene (3-) Dibromorbane Dibromo-3-chioropropane (1,2-) Dibromorbane Dibromorbane Dibromorbane Dibromorbane Dibromorbane Dibromorbane Dibromorbane Dichioro-2-udene (1,3-) Dichiorobenzene (1,3-) Dichiorobenzene (1,3-) Dichiorobenzene (1,3-) Dichiorobenzene (1,3-) Dichiorobenzene (1,3-) Dichiorobenzene (1,3-) Dichioroethane (1,1-) Dichioroethane (1,1-)	NPW	Certified	SW-946 \$350C SW-945 \$350C SW-946 \$350C	GGMS, P & T or Direct Injection,	NPW11.14420 NPW11.14430 NPW11.14450 NPW11.14450 NPW11.14450 NPW11.14450 NPW11.14450 NPW11.14450 NPW11.14500 NPW11.14500 NPW11.14500 NPW11.14510 NPW11.14500	Yes	222222222222222222222222222222222222222	7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 9/8/2016 7/1/2002 9/8/2016 7/1/2002



Dichloropropane (1,3-)	NPW	Certified	SW-846 8260C	GC/MS, P & T or Direct Injection,	NPW11.14830	Yes	NJ	7/1/2005
Dichioropropane (2,2-)	NPW	Certified	SW-846 8260C	GCMS, P & T or Direct Injection,	NPW11.14840	Yes	NJ	7/1/2005
Dichioropropene (1,1-)	NPW	Certified	SW-846 8260C	GCMS, P & T or Direct Injection,	NPW11.14850	Yes	NJ	7/1/2005
Dichioropropene (cis-1,3-)	NPW	Certified	SW-846 8260C	GCMS, P & T or Direct Injection,	NPW11.14860	Yes	NJ	7/1/2002
	NPW		SW-846 8260C	GCMS, P & T or Direct Injection,		Yes		
Dichioropropene (trans-1,3-)	NPW	Certified		GC/MS, P & T or Direct Injection,	NPW11.14870	Yes	NJ	7/1/2002
Diethyl ether (Ethyl ether)	NPW	Certified	SW-846 8260C	GC/MS, P & T or Direct Injection,	NPW11.14880	Yes	NJ	7/1/2005
Disopropyl Ether [DIPE]		Certified	SW-846 8260C	GCMS, P & T or Direct Injection,	NPW11.14890		NJ	12/1/2006
Dioxane (1,4-)	NPW	Certified	SW-846 8260C		NPW11.14900	Yes	NJ	7/1/2004
Ethanol	NPW	Certified	SW-846 8260C	GC/MS, P & T or Direct Injection,	NPW11.14910	Yes	NJ	7/1/2007
Ethyl acetate	NPW	Certified	SW-846 8260C	GC/MS, P & T or Direct Injection,	NPW11.14920	Yes	NJ	7/1/2005
Ethyl methacrylate	NPW	Certified	SW-846 8260C	GC/MS, P & T or Direct Injection,	NPW11.14930	Yes	NJ	7/1/2005
Ethylbenzene	NPW	Certified	SW-846 8260C	GC/MS, P & T or Direct Injection,	NPW11.14940	Yes	NJ	7/1/2002
Ethyl-tert-butyl Ether [ETBE]	NPW	Certified	SW-846 8260C	GC/MS, P & T or Direct Injection,	NPW11.14950	Yes	NJ	12/1/2006
Heptane (n-)	NPW	Certified	SW-846 8260C	GCMS, P & T or Direct Injection,	NPW11.14960	Yes	NJ	1/23/2012
Hexachiorobutadiene (1,3-)	NPW	Certified	SW-846 8260C	GCMS, P & T or Direct Injection,	NPW11.14970	Yes	NJ	7/1/2002
Hexachloroethane	NPW	Certified	SW-846 8260C	GC/MS, P & T or Direct Injection,	NPW11.14980	Yes	NJ	7/1/2002
Hexane (n-)	NPW	Certified	SW-846 8260C	GCMS, P & T or Direct Injection,	NPW11.14990	Yes	NJ	1/23/2012
Hexanone (2-)	NPW	Certified	SW-846 8260C	GCMS, P & T or Direct Injection,	NPW11.15000	Yes	NJ	7/1/2002
Iso-butyl alcohol	NPW	Certified	SW-846 8260C	GCMS, P & T or Direct Injection,	NPW11.15010	Yes	NJ	7/1/2005
Isopropyl acetate	NPW	Certified	SW-846 8260C	GC/MS, P & T or Direct Injection,	NPW11.15030	Yes	NJ	9/8/2016
Isopropylbenzene	NPW	Certified	SW-846 8260C	GC/MS, P & T or Direct Injection,	NPW11.15040	Yes	NJ	7/1/2005
Isopropyltoluene (4-)	NPW	Certified	SW-846 8260C	GC/MS, P & T or Direct Injection,	NPW11.15050	Yes	NJ	7/1/2005
Methacrylonitrile	NPW	Certified	SW-846 8250C	GC/MS, P & T or Direct Injection,	NPW11.15050	Yes	NJ	7/1/2005
	NPW	Certified	SW-846 8260C	GC/MS, P & T or Direct Injection,	NPW11.15070	Yes	NJ	12/2/2008
Methyl acetate	NPW	Certified	SW-846 8260C		NPW11.15070			7/1/2007
Methyl acrylate	NPW	Certified	SW-846 8260C SW-846 8260C	GCMS, P & T or Direct Injection,		Yes	NJ	7/1/2007
Methyl lodide				GC/MS, P & T or Direct Injection,	NPW11.15090	Yes	NJ	
Methyl methacrylate	NPW	Certified	SW-846 8260C	GC/MS, P & T or Direct Injection,	NPW11.15100	Yes	NJ	7/1/2005
Methyl tert-butyl ether	NPW	Certified	SW-846 8260C	GC/MS, P & T or Direct Injection,	NPW11.15110	Yes	NJ	7/1/2002
Methylcyclohexane	NPW	Certified	SW-846 8260C	GC/MS, P & T or Direct Injection,	NPW11.15120	Yes	NJ	4/6/2010
Methylene chloride	NPW	Certified	SW-846 8260C	GC/MS, P & T or Direct Injection,	NPW11.15130	Yes	NJ	7/1/2002
(Dichloromethane)		Cerunea	OH 040 02000	Capillary	HFW11.15130	165	140	7/1/2002
Naphthalene	NPW	Certified	SW-846 8260C	GC/MS, P & T or Direct Injection,	NPW11.15160	Yes	NJ	7/1/2002
Nitropropane (2-)	NPW	Certified	SW-846 8250C	GC/MS, P & T or Direct Injection,	NPW11.15180	Yes	NJ	12/2/2008
Pentachioroethane	NPW	Certified	SW-846 8250C	GC/MS, P & T or Direct Injection,	NPW11.15210	Yes	NJ	7/1/2005
Pentanone (4-methyl-2-) (MIBK)	NPW	Certified	SW-846 8260C	GC/MS, P & T or Direct Injection,	NPW11.15230	Yes	NJ	7/1/2002
Propionitrie	NPW	Certified	SW-846 8260C	GCMS, P & T or Direct Injection,	NPW11.15240	Yes	NJ	7/1/2005
Propylbenzene (n-)	NPW	Certified	SW-846 8250C	GCMS, P & T or Direct Injection,	NPW11.15250	Yes	NJ	7/1/2005
Sec-buty/benzene	NPW	Certified	SW-846 8260C	GC/MS, P & T or Direct Injection,	NPW11.15260	Yes	NJ	7/1/2005
	NPW		SW-846 8260C					
Styrene		Certified		GC/MS, P & T or Direct Injection,	NPW11.15270	Yes	NJ	7/1/2002
tert-Amylmethyl ether [TAME]	NPW	Certified	SW-846 8260C	GC/MS, P & T or Direct Injection,	NPW11.15280	Yes	NJ	12/1/2006
Tert-butyl alcohol	NPW	Certified	SW-846 8260C	GC/MS, P & T or Direct Injection,	NPW11.15300	Yes	NJ	7/1/2004
Tert-butylbenzene	NPW	Certified	SW-846 8260C	GCMS, P & T or Direct Injection,	NPW11.15310	Yes	NJ	7/1/2005
Tetrachioroethane (1,1,1,2-)	NPW	Certified	SW-846 8260C	GCMS, P & T or Direct Injection,	NPW11.15320	Yes	NJ	7/1/2002
Tetrachioroethane (1,1,2,2-)	NPW	Certified	SW-846 8260C	GCMS, P & T or Direct Injection,	NPW11.15330	Yes	NJ	7/1/2002
Tetrachioroethene	NPW	Certified	SW-846 8260C	GC/MS, P & T or Direct Injection,	NPW11.15340	Yes	NJ	7/1/2002
Tetrahydrofuran	NPW	Certified	SW-846 8260C	GC/MS, P & T or Direct Injection,	NPW11.15350	Yes	NJ	7/1/2005
Toluene	NPW	Certified	SW-846 8260C	GCMS, P & T or Direct Injection,	NPW11.15360	Yes	NJ	7/1/2002
	-			GC/MS, P & T or Direct Injection,				
Trichloro (1,1,2-) trifluoroethane	NPW	Certified	SW-846 8260C		NPW11.15380	Yes	NJ	7/1/2004
Trichloro (1,1,2-) trifluoroethane (1,2,2-)	NPW	Certified	SW-846 8260C	Capillary		Yes	NJ NJ	
Trichloro (1,1,2-) trifluoroethane (1,2,2-) Trichlorobenzene (1,2,3-)	NPW NPW	Certified Certified	SW-846 8260C SW-846 8260C	Capillary GCMS, P & T or Direct Injection,	NPW11.15390	Yes	NJ	7/1/2005
Trichloro (1,1,2-) trifluoroethane (1,2,2-) Trichlorobenzene (1,2,3-) Trichlorobenzene (1,2,4-)	NPW NPW NPW	Certified Certified Certified	SW-846 8260C SW-846 8260C SW-846 8260C	Capillary GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	NPW11.15390 NPW11.15400	Yes Yes	NJ NJ	7/1/2005 7/1/2002
Trichloro (1,1,2-) trifluoroethane (1,2,2-) Trichlorobenzene (1,2,3-) Trichlorobenzene (1,2,4-) Trichloroethane (1,1,1-)	NPW NPW NPW	Certified Certified Certified Certified	SW-846 8260C SW-846 8260C SW-846 8260C SW-846 8260C	Capillary GCMS, P & T or Direct Injection,	NPW11.15390 NPW11.15400 NPW11.15410	Yes Yes Yes	NJ NJ NJ	7/1/2005 7/1/2002 7/1/2002
Trichloro (1,1,2-) trifluoroethane (1,2,2-) Trichlorobenzene (1,2,3-) Trichlorobenzene (1,2,4-) Trichloroethane (1,1,1-) Trichloroethane (1,1,2-)	NPW NPW NPW NPW	Certified Certified Certified Certified Certified	SW-846 8260C SW-846 8260C SW-846 8260C SW-846 8260C SW-846 8260C	Capillary GCMS, P & T or Direct Injection,	NPW11.15390 NPW11.15400 NPW11.15410 NPW11.15420	Yes Yes Yes Yes	NJ NJ NJ	7/1/2005 7/1/2002 7/1/2002 7/1/2002
Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,3-) Trichiorobenzene (1,2,4-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-)	NPW NPW NPW NPW NPW	Certified Certified Certified Certified Certified Certified	SW-945 8250C SW-945 8250C SW-946 8250C SW-945 8250C SW-945 8250C SW-945 8250C	Capillary GCMS, P & T or Direct injection,	NPW11.15390 NPW11.15400 NPW11.15410 NPW11.15420 NPW11.15430	Yes Yes Yes Yes Yes	NJ NJ NJ NJ	7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002
Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,3-) Trichiorobenzene (1,2,4-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane (T,1,2-) Trichioroethane Trichiorofluoromethane	NPW NPW NPW NPW NPW NPW	Certified Certified Certified Certified Certified Certified Certified	SW-946 8250C SW-946 9250C SW-946 9250C SW-946 9250C SW-946 9250C SW-946 9250C	Capillary GCMS, P & T or Direct Injection,	NPW11.15390 NPW11.15400 NPW11.15410 NPW11.15420 NPW11.15430 NPW11.15440	Yes Yes Yes Yes Yes	NJ NJ NJ NJ NJ	7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002
Trichloro (1,1,2-) trifluoroethane (1,2,2-) Trichlorobenzene (1,2,3-) Trichlorobenzene (1,2,4-) Trichlorobenzene (1,2,4-) Trichlorobenene (1,1,2-) Trichlorobenene Trichlorofuoromethane Trichlorofuoromethane Trichloropropane (1,2,3-)	NPW NPW NPW NPW NPW NPW NPW	Certified Certified Certified Certified Certified Certified Certified Certified Certified	SW-845 8250C SW-845 8250C SW-945 8250C SW-946 8250C SW-945 8250C SW-945 8250C SW-945 8250C SW-945 8250C	Capillary  GCMS, P & T or Direct Injection,	NPW11.15390 NPW11.15400 NPW11.15410 NPW11.15420 NPW11.15430 NPW11.15440 NPW11.15440	Yes Yes Yes Yes Yes Yes Yes	N3 N3 N3 N3 N3 N3 N3 N3	7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2004
Trichiono (1,1,2-) trifluoroethane (1,2,2-) Trichiombenzene (1,2,2-) Trichiombenzene (1,2,2-) Trichiombenzene (1,1,1-) Trichionethane (1,1,1-) Trichionethane (1,1,2-) Trichionofluoromethane Trichiombenzene (1,2,3-) Trimethylbenzene (1,2,3-)	NPW NPW NPW NPW NPW NPW NPW NPW	Certified	SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C	Capillary  GCMS, P & T or Direct Injection,	NPW11.15390 NPW11.15400 NPW11.15410 NPW11.15420 NPW11.15430 NPW11.15440 NPW11.15450 NPW11.15470	Yes	22 22 23 22 22 23 23 24 23 23 24	7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2004 7/1/2004
Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzane (1,2,3-) Trichiorobenzane (1,2,4-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioromethane Trichioromomethane Trichioromometh	NPW NPW NPW NPW NPW NPW NPW NPW NPW	Certified	SW-845 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-945 8250C	Capillary  SCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	NPW11.15390 NPW11.15400 NPW11.15410 NPW11.15420 NPW11.15430 NPW11.15440 NPW11.15450 NPW11.15470 NPW11.15470	Yes	22 22 22 22 22 22 22 22 22 22 22 22 22	7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2004 7/1/2005 7/1/2005
Trichloro (1,1,2-) trifluoroethane (1,2,2-) Trichlorobenzene (1,2,3-) Trichlorobenzene (1,2,4-) Trichlorobenzene (1,1-) Trichlorobenene (1,1-2-) Trichlorobenene Trichlorofuoromethane Trichloropropane (1,2,3-) Trimethylbenzene (1,2,4-) Trimethylbenzene (1,3,5-) Viryl szetste	NPW NPW NPW NPW NPW NPW NPW NPW NPW NPW	Certified	SW-845 8350C SW-845 8350C SW-945 8350C	Capillary  GCMS, P & T or Direct Injection,	NPW11.15390 NPW11.15400 NPW11.15410 NPW11.15420 NPW11.15430 NPW11.15440 NPW11.15450 NPW11.15470 NPW11.15480 NPW11.15490	Yes	22 22 23 23 23 23 22 23 23 23 23 23 23 2	7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005 7/1/2005 7/1/2005
Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,3-) Trichiorobenzene (1,2,4-) Trichiorobenzene (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioromomentane Trichioromomentane Trichioromomentane Trichioromomentane (1,3,3-) Trimethylbenzene (1,3,5-) Vinyi acetate Vinyi chioride	NPW	Certified	SW-845 8250C SW-946 8250C SW-945 8250C	Capillary  GCMS, P & T or Direct Injection,	NPW11.15390 NPW11.15400 NPW11.15410 NPW11.15420 NPW11.15430 NPW11.15440 NPW11.15450 NPW11.15470 NPW11.15490 NPW11.15490 NPW11.15490	Yes	N3 N3 N3 N3 N3 N3 N3 N3 N3 N3 N3 N3 N3 N	7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2004 7/1/2004 7/1/2005 7/1/2004 7/1/2004
Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,2-) Trichiorobenzene (1,2,2-) Trichiorobenzene (1,1,2-) Trichiorobenzene (1,1,2-) Trichiorobenzene (1,1,2-) Trichiorobenzene Trichioropropane (1,2,3-) Trimetrylbenzene (1,2,2-) Trimetrylbenzene (1,3,5-) Vinyl acetate Vinyl chloride Xylene (m-)	NPW	Certified	SW-845 8250C SW-846 8250C SW-846 8250C SW-946 8250C	Capillary  GCMS, P & T or Direct Injection,	NPW11.15390 NPW11.15410 NPW11.15410 NPW11.15410 NPW11.15430 NPW11.15430 NPW11.15450 NPW11.15490 NPW11.15490 NPW11.15490 NPW11.15500 NPW11.15510	Yes	22 22 22 22 22 22 22 22 22 22 22 22 22	7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005
Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,3-) Trichiorobenzene (1,2,4-) Trichiorobenzene (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane Trichiorofuoromethane Trichiorofuoromethane Trichiorofuoromethane Trichiorofuoromethane Trichiorofuoromethane Trichiorofuoromethane (1,3,3-) Trimethylbenzene (1,3,5-) Vinyl actate Vinyl chioride Xylene (m-) Xylene (m-)	NPW	Certified	SW-946 8250C SW-946 8250C	Capillary  GCMS, P & T or Direct Injection,	NPW11.15390 NPW11.15400 NPW11.15410 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15490 NPW11.15490 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.15520	Yes	22 22 23 24 24 24 24 24 24 24 24 24 24 24 24 24	7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2004 7/1/2005 7/1/2005 7/1/2004 7/1/2005 7/1/2005 7/1/2005 7/1/2005
Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,2-) Trichiorobenzene (1,2,2-) Trichiorobenzene (1,1,2-) Trichiorobenzene (1,1,2-) Trichiorobenzene (1,1,2-) Trichiorobenzene Trichioropropane (1,2,3-) Trimetrylbenzene (1,2,2-) Trimetrylbenzene (1,3,5-) Vinyl acetate Vinyl chloride Xylene (m-)	NPW	Certified	SW-845 8250C SW-846 8250C SW-846 8250C SW-946 8250C	Capillary  GOMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	NPW11.15390 NPW11.15410 NPW11.15410 NPW11.15410 NPW11.15430 NPW11.15430 NPW11.15450 NPW11.15490 NPW11.15490 NPW11.15490 NPW11.15500 NPW11.15510	Yes	22 22 22 22 22 22 22 22 22 22 22 22 22	7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005
Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,3-) Trichiorobenzene (1,2,4-) Trichiorobenzene (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane Trichiorofuoromethane Trichiorofuoromethane Trichiorofuoromethane Trichiorofuoromethane Trichiorofuoromethane Trichiorofuoromethane (1,3,3-) Trimethylbenzene (1,3,5-) Vinyl actate Vinyl chioride Xylene (m-) Xylene (m-)	NPW	Certified	SW-946 8250C SW-946 8250C	Capillary  GCMS, P & T or Direct Injection,	NPW11.15390 NPW11.15400 NPW11.15410 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15490 NPW11.15490 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.15520	Yes	22 22 23 24 24 24 24 24 24 24 24 24 24 24 24 24	7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005
Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzane (1,2,3-) Trichiorobenzane (1,2,4-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichiorotromethane Trichioropropane (1,3,3-) Trimethylbenzane (1,3,4-) Trimethylbenzane (1,3,5-) Vilny acetate Vilny acetate Vilny (acetate Vilny (ac	NPW	Certified	SW-845 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-945 8250C SW-945 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C	Capillary  GOMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	NPW11.15390 NPW11.15400 NPW11.15410 NPW11.15420 NPW11.15420 NPW11.15440 NPW11.15440 NPW11.15470 NPW11.15470 NPW11.15490 NPW11.15500 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.15520 NPW11.15520 NPW11.15530	Yes	22 22 22 22 22 22 22 22 22 22 22 22 22	7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005
Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,2-) Trichiorobenzene (1,2,2-) Trichiorobenzene (1,1,1-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane (1,2,3-) Trichiorofluoromethane Trichioropropiene (1,2,3-) Trimethylbenzene (1,2,3-) Trimethylbenzene (1,3,5-) Viryl acctate Viryl chloride Viryl chloride Viryl schore (1,2,3-) Tylene (1,3,5-) Viryl sectate (1,3,5-) Viryl schore (1,3,5-) Viryl sectate (1,3,5-) Viryl sect	NPW	Certified	SW-946 8250C SW-946 8250C	Capillary  SCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	NPW11.15390 NPW11.15400 NPW11.15410 NPW11.15420 NPW11.15430 NPW11.15430 NPW11.15450 NPW11.15490 NPW11.15490 NPW11.15510 NPW11.15510 NPW11.15520 NPW11.15520 NPW11.15540	Yes	22 22 22 22 22 22 22 22 22 22 22 22 22	7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2004 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005
Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichioroberazne (1,2,3-) Trichioroberazne (1,2,4-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane Trichioropropane (1,2,3-) Trimetrylbenazne (1,2,3-) Trimetrylbenazne (1,2,3-) Trimetrylbenazne (1,2,3-) Vilny acetate Vilny chioride Xylene (n-) Xylene (n-) Xylene (n-) Xylenes (total) Dioxane (1,4-) Accenapithene	NPW	Certified	SW-845 8250C SW-946 8250C SW-945 8250C	Capillary  GCMS, P & T or Direct Injection, GCMS, Extract or Dir Inj. (apiliary	NPW11.15390 NPW11.15400 NPW11.15410 NPW11.15420 NPW11.15430 NPW11.15430 NPW11.15450 NPW11.15470 NPW11.15490 NPW11.15500 NPW11.15500 NPW11.15500 NPW11.15530 NPW11.15530 NPW11.15530 NPW11.15540	Yes	N3 N	7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2004 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005
Trichiono (1,1,2-) trifluoroethane (1,2,2-) Trichiomobenzene (1,2,2-) Trichiomobenzene (1,2,2-) Trichiomobenzene (1,1,2-) Trichiomobenzene (1,1,2-) Trichiomobenzene Trichiomobenzene Trichiomobenzene Trichiomobenzene Trichiomobenzene Trichiomobenzene (1,3,2-) Trimeblybenzene (1,3,3-) Trimeblybenzene (1,3,5-) Vinyi chiomibe Xylene (m-) Xylene (m-) Xylene (p-) Xylene (p-) Xylene (p-) Xylene (p-) Acenaphthene Acenaphthene	NPW	Certified	SW-946 8250C SW-946 8250C	Capillary  GCMS, P & T or Direct Injection,  GCMS, Extract or Direct Injection,	NPW11.15390 NPW11.15400 NPW11.15410 NPW11.15420 NPW11.15430 NPW11.15430 NPW11.15490 NPW11.15490 NPW11.15490 NPW11.15500 NPW11.15500 NPW11.15510 NPW11.15500 NPW11.15545 NPW11.15545 NPW11.15545 NPW11.15545 NPW11.15545 NPW11.17750	Yes	22 22 22 22 22 22 22 22 22 22 22 22 22	7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2004 7/1/2005
Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,3-) Trichiorobenzene (1,2,4-) Trichiorobenzene (1,2,4-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioromethane Trichioromomethane Trichior	NPW	Certified	SW-845 8250C SW-945 8250C	Capillary  GOMS, P & T or Direct Injection, GCMS, Extract or Dir Inj. Capillary	NPW11.15390 NPW11.15400 NPW11.15410 NPW11.15410 NPW11.15430 NPW11.15440 NPW11.15440 NPW11.15490 NPW11.15490 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.15530 NPW11.15530 NPW11.15540 NPW11.15540 NPW11.15540 NPW11.15540 NPW11.15540 NPW11.17750 NPW11.17750 NPW11.17750	Yes	22 22 22 22 22 22 22 22 22 22 22 22 22	7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005
Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,2-) Trichiorobenzene (1,2,2-) Trichiorobenzene (1,1,2-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichiorofuoromethane T	NPW	Certified	SW-946 8250C SW-946 8250C	Capillary  GCMS, P & T or Direct Injection,  GCMS, Extract or Dir Inj. Capillary	NPW11.15390 NPW11.15410 NPW11.15410 NPW11.15420 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15470 NPW11.15490 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.15520 NPW11.15545 NPW11.15545 NPW11.15545 NPW11.15545 NPW11.17540 NPW11.17750 NPW11.17750 NPW11.17750 NPW11.17750 NPW11.17750 NPW11.17750	Yes	22 22 22 22 22 22 22 22 22 22 22 22 22	7/1/2005 7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005
Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,3-) Trichiorobenzene (1,2,4-) Trichiorobenzene (1,1,2-) Trichiorobenzene (1,1,2-) Trichiorobenzene (1,1,2-) Trichiorobenzene Trichiorofromentane Trichiorofromentane Trichiorofromentane Trichiorofromentane (1,3,3-) Trimethylbenzene (1,3,5-) Vinyl scetate Vinyl scetate Vinyl scetate Vinyl scetate Vinyl scetate Vinyl scetate Trichiorofromentane (1,4-) Trimethylbenzene (1,3,5-) Vinyl scetate Acetage Aceta	NPW	Certified	SW-846 8250C SW-846 8250C SW-846 8250C SW-846 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-945 8250C SW-945 8250C SW-945 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8270D SW-946 8270D SW-946 8270D SW-946 8270D	Capillary  GOMS, P & T or Direct Injection, GCMS, Extract or Dir Inj. Capillary	NPW11.15390 NPW11.15400 NPW11.15410 NPW11.15410 NPW11.15430 NPW11.15440 NPW11.15490 NPW11.15490 NPW11.15490 NPW11.15500 NPW11.	Yes	22 22 22 22 22 22 22 22 22 22 22 22 22	7/1/2005 7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005
Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichioroberszene (1,2,3-) Trichioroberszene (1,2,4-) Trichioroethane (1,1,1-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane Trichioropropane (1,2,2-) Trimetrylibenszene (1,2,2-) Trimetrylibenszene (1,2,2-) Trimetrylibenszene (1,2,3-) Vilnyi acetale Vilnyi chioride Xylene (m-) Xylene (m-) Xylene (b-) Xylenes (total) Diovane (1,4-) Acetaphthene Acetaphthylene A	NPW	Certified	SW-946 8250C SW-946 8270D SW-946 8270D SW-946 8270D SW-946 8270D SW-946 8270D SW-946 8270D	Capillary  GCMS, P & T or Direct Injection, GCMS, Extract or Dir Inj. Capillary	NPW11.15390 NPW11.15400 NPW11.15410 NPW11.15410 NPW11.15430 NPW11.15430 NPW11.15490 NPW11.15490 NPW11.15490 NPW11.15510 NPW11.15510 NPW11.15540 NPW11.15540 NPW11.17750 NPW11.17750 NPW11.17750 NPW11.17750 NPW11.17750 NPW11.17780 NPW11.17780 NPW11.17780 NPW11.17780 NPW11.17780 NPW11.17780 NPW11.17780 NPW11.17780 NPW11.17780	Yes	22 22 22 22 22 22 22 22 22 22 22 22 22	7/1/2005 7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2004 7/1/2005
Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,3-) Trichiorobenzene (1,2,4-) Trichiorobenzene (1,1,2-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane Trichiorofuoromethane Trichiorofuoromethane Trichiorofuoromethane Trichiorofuoromethane Trichiorofuoromethane Trichiorofuoromethane (1,3,5-) Viryl acetate Viryl chioride Xylene (m-) Xylene (p-) Xylene (p-) Xylene (p-) Xylene (p-) Xylene (p-) Acetaphthene Acetaphthene Acetophenone Acet	NPW	Certified	SW-846 8150C SW-846 8170D	Capillary  SCMS, P & T or Direct Injection, GCMS, Extract or Dir Inj. Capillary	NPW11.15390 NPW11.15400 NPW11.15410 NPW11.15420 NPW11.15430 NPW11.15430 NPW11.15490 NPW11.15490 NPW11.15490 NPW11.15500 NPW11.15500 NPW11.15500 NPW11.15500 NPW11.15545 NPW11.17570 NPW11.17760 NPW11.17760 NPW11.17760 NPW11.177800 NPW11.177800 NPW11.177800 NPW11.177800 NPW11.177800 NPW11.177800 NPW11.177800 NPW11.177800 NPW11.177800 NPW11.177800 NPW11.177800 NPW11.177800 NPW11.177800 NPW11.177800 NPW11.177800 NPW11.177800 NPW11.177800 NPW11.177800	Yes	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7/1/2005 7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005
Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,3-) Trichiorobenzene (1,2,4-) Trichiorobenzene (1,2,4-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioromethane Trichioromomethane Trichior	NPW	Certified	SW-845 8250C SW-946 8250C SW-945 8270D	Capillary  GCMS, P & T or Direct Injection,  GCMS, Extract or Dir Inj. Capillary	NPW11.15390 NPW11.15400 NPW11.15410 NPW11.15430 NPW11.15430 NPW11.15440 NPW11.15440 NPW11.15490 NPW11.15490 NPW11.15510 NPW11.15510 NPW11.15530 NPW11.15530 NPW11.15530 NPW11.17750 NPW11.17770 NPW11.17770 NPW11.17780 NPW11.17780 NPW11.17780 NPW11.17800 NPW11.17800 NPW11.17800 NPW11.17800 NPW11.17800 NPW11.17800 NPW11.17800 NPW11.17800 NPW11.17800	Yes	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7/1/2005 7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005
Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,2-) Trichiorobenzene (1,2,2-) Trichiorobenzene (1,2,2-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichiorofthoromethane Trichiorofthoromethane Trichiorofthoromethane Trichiorofthoromethane Trichiorofthoromethane Trichioropropane (1,3,3-) Trimethylbenzene (1,3,5-) Ulryl actaliae Viryl chloride Xylene (m-) Xylene (m-) Xylene (p-) Xylene (ball) Dioxane (1,4-) Acenaphthene Acenaphthene Acetaphthoride Acetaphthoromethane Acetylaminofuorene (2-) Alpha - terpineol Amilnobjohenyi (4-) Artiline Antiroacene Araminobjohenyi (4-) Araminob	NPW	Certified	SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-948 8270D	Capillary  GCMS, P & T or Direct Injection,  GCMS, Extract or Dir Inj. Capillary	NPW11.15390 NPW11.15400 NPW11.15410 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15440 NPW11.15490 NPW11.15490 NPW11.15500 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.15545 NPW11.15750 NPW11.17750 NPW11.17750 NPW11.17750 NPW11.17750 NPW11.17750 NPW11.17750 NPW11.17750 NPW11.17750 NPW11.17750 NPW11.17750 NPW11.17750 NPW11.17750 NPW11.17750 NPW11.17750 NPW11.17750 NPW11.17750 NPW11.17780 NPW11.17780 NPW11.17780 NPW11.17780 NPW11.17780 NPW11.17780 NPW11.17780 NPW11.17780 NPW11.17780 NPW11.17780 NPW11.17780 NPW11.17780	Yes	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7/1/2005 7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2004 7/1/2004 7/1/2004 7/1/2005
Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,3-) Trichiorobenzene (1,2,4-) Trichiorobenzene (1,2,4-) Trichiorobenzene (1,1,2-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioropropane (1,3,3-) Trichioropropane (1,3,3-) Trimethylbenzene (1,2,4-) Trimethylbenzene (1,2,4-) Trimethylbenzene (1,3,5-) Vinyl scetate Aviene (n-) Aviene (n-) Aviene (n-) Aviene (n-) Aviene (n-) Aviene (n-) Acenapithene Acetophenone Acetophenone Acetophenone Acetophenone Aminobiphenyl (4-) Anline Artaxine Arraxine	NPW	Certified	SW-845 8250C SW-846 8250C SW-846 8250C SW-846 8250C SW-845 8270D	Capillary  GOMS, P & T or Direct Injection, GCMS, Extract or Dir Inj. Capillary	NPW11.15390 NPW11.15400 NPW11.15410 NPW11.15410 NPW11.15430 NPW11.15430 NPW11.15440 NPW11.15490 NPW11.15490 NPW11.15490 NPW11.15500 NPW11.15500 NPW11.15500 NPW11.15500 NPW11.15500 NPW11.15500 NPW11.15500 NPW11.17750 NPW11.17750 NPW11.17760 NPW11.17780 NPW11.17780 NPW11.17800	Yes	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7/1/2005 7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005
Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,2-) Trichiorobenzene (1,2,2-) Trichiorobenzene (1,2,2-) Trichiorobenzene (1,1,1-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichiorofthuromethane Trichiorofthuromethane Trichiorofthuromethane Trichiorofthuromethane Trichiorofthuromethane Trichioropropiane (1,2,3-) Trimethylbenzene (1,3,5-) Vilyil sectals Vilyil chioride Xylene (m-) Xylene (m-) Xylene (b-) Xylene (b-) Xylene (b-) Xylene (b-) Xylene (b-) Aylene (b-) Aylene (b-) Alpina - terpineol Acetaphthylene Acetaphthylene Acetaphthylene Acetaphthylene Acetiphenome Acetylaminoftuorene (2-) Apina - terpineol Aminolophenyl (4-) Antiline Artarine Benzalidehyde	NPW	Certified	SW-946 8250C SW-946 8270D	Capillary  GOMS, P & T or Direct Injection, GCMS, Extract or Dir Inj. Capillary	NPW11.15390 NPW11.15410 NPW11.15410 NPW11.15420 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15470 NPW11.15490 NPW11.15510 NPW11.15500 NPW11.15500 NPW11.15500 NPW11.15545 NPW11.15545 NPW11.17500 NPW11.17540 NPW11.17750	Yes	222222222222222222222222222222222222222	7/1/2005 7/1/2002
Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,3-) Trichiorobenzene (1,2,4-) Trichiorobenzene (1,3,4-) Trichiorotenzene (1,1,1-) Trichiorotenzene (1,1,2-) Trichiorotenzene Trichiorotenzene (1,3,3-) Trichiorotenzene (1,3,3-) Trinebrybenzene (1,3,5-) Viryl seetate Viryl chioride Xylene (m-) Xylene (m-) Xylene (m-) Xylene (m-) Xylene (m-) Xylene (m-) Azenaphthene Azetophenone Benzaidehyde Benzaidehyde Benzaidehyde Benzaidehyde	NPW	Certified	SW-946 8250C SW-946 8270D	Capillary  GOMS, P & T or Direct Injection, GCMS, Extract or Dir Inj. Capillary	NPW11.15390 NPW11.15400 NPW11.15410 NPW11.15420 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15450 NPW11.15490 NPW11.15490 NPW11.15590 NPW11.15590 NPW11.15510 NPW11.15510 NPW11.15790 NPW11.17790 NPW11.17790 NPW11.17790 NPW11.17840 NPW11.17850	Yes	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005 7/1
Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,2-) Trichiorobenzene (1,2,2-) Trichiorobenzene (1,3,2-) Trichiorobenzene (1,1,1-) Trichiorobenzene (1,1,2-) Trichioroethane (1,1,2-) Trichiorofluoromethane Trichioropromie (1,2,3-) Trinebtybenzene (1,2,3-) Trimebtybenzene (1,3,5-) Vinya catalae Vinya (chioride Vinya (	NPW	Certified	SW-946 8250C SW-946 8270D	Capillary  GCMS, P & T or Direct Injection,  GCMS, Extract or Dir Inj. Capillary	NPW11.15390 NPW11.15400 NPW11.15410 NPW11.15410 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.17750	Yes	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7/1/2005 7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005
Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,3-) Trichiorobenzene (1,2,4-) Trichiorobenzene (1,1,2-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichiorofthoromethane Trichiorofthoromethane Trichiorofthoromethane Trichiorofthoromethane Trichiorofthoromethane (1,3,3-) Trimethylbenzene (1,3,5-) Vinyl actate Vinyl chioride Xylene (m-) Xylene (p-) Xylene (p-) Xylene (p-) Xylene (p-) Xylene (p-) Xylene (p-) Acenaphthene Acetaphthoromethane Acetaphthoromethane Acetaphthoromethane Acetaphthoromethane Acetaphthoromethane Acetaphthoromethane Acetaphthoromethane Benzalderylde Benzalderyde	NPW	Certified	SW-946 8250C SW-946 8270D	Capillary  SCMS, P & T or Direct Injection, GCMS, Extract or Dir Inj. Capillary	NPW11.15390 NPW11.15400 NPW11.15410 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15440 NPW11.15490 NPW11.15490 NPW11.15500 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.15750 NPW11.17750 NPW11.17750 NPW11.17750 NPW11.17750 NPW11.17750 NPW11.17750 NPW11.17840 NPW11.17840 NPW11.17850	Yes	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7/1/2005 7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005 7/1
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Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,3-) Trichiorobenzene (1,2,4-) Trichiorobenzene (1,1,2-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichiorofthoromethane Trichiorofthoromethane Trichiorofthoromethane Trichiorofthoromethane Trichiorofthoromethane (1,3,3-) Trimethylbenzene (1,3,5-) Vinyl actate Vinyl chioride Xylene (m-) Xylene (p-) Xylene (p-) Xylene (p-) Xylene (p-) Xylene (p-) Xylene (p-) Acenaphthene Acetaphthoromethane Acetaphthoromethane Acetaphthoromethane Acetaphthoromethane Acetaphthoromethane Acetaphthoromethane Acetaphthoromethane Benzalderylde Benzalderyde	NPW	Certified	SW-946 8250C SW-946 8270D	Capillary  SCMS, P & T or Direct Injection, GCMS, Extract or Dir Inj. Capillary	NPW11.15390 NPW11.15400 NPW11.15410 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15440 NPW11.15490 NPW11.15490 NPW11.15500 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.15750 NPW11.17750 NPW11.17750 NPW11.17750 NPW11.17750 NPW11.17750 NPW11.17750 NPW11.17840 NPW11.17840 NPW11.17850	Yes	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7/1/2005 7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005 7/1
Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,3-) Trichiorobenzene (1,2,4-) Trichiorobenzene (1,2,4-) Trichiorobenzene (1,1,2-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioropropane (1,3,3-) Trichioropropane (1,3,3-) Trichioropropane (1,3,3-) Trimethylbenzene (1,2,4-) Trimethylbenzene (1,2,4-) Trimethylbenzene (1,3,5-) Vinyl scetate Vinyl scetat	NPW	Certified	SW-846 8250C SW-846 8270D	Capillary  GOMS, P & T or Direct Injection, GCMS, Extract or Dir Inj. Capillary	NPW11.15390 NPW11.15400 NPW11.15410 NPW11.15410 NPW11.15430 NPW11.15430 NPW11.15440 NPW11.15490 NPW11.15490 NPW11.15490 NPW11.15540 NPW11.15500 NPW11.15500 NPW11.15500 NPW11.15500 NPW11.15750 NPW11.17750	Yes	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005
Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,3-) Trichiorobenzene (1,2,4-) Trichiorobenzene (1,3,4-) Trichiorobenzene (1,1,1-) Trichiorobenzene (1,1,2-) Trichiorotenene Trichiorotenene Trichioromethane Trichiorofuoromethane Trichiorofuoromethane Trichiorofuoromethane Trichiorofuoromethane Trichiorofuoromethane Trichiorofuoromethane (1,3,5-) Vinyi acetate Vinyi chioride Xylene (m-) Xylene (m-) Xylene (m-) Xylene (n-) Xylene (n-) Xylene (n-) Xylene (n-) Xylene (n-) Xylene (n-) Xylene (1,4-) Acetaphthylene Acetosherione Acetosherione Acetosherione Acetosherione Acetosherione Acetosherione Benzolalide ene Benzolaliderene	NPW	Certified	SW-946 8250C SW-946 8270D	Capillary  GOMS, P & T or Direct Injection, GCMS, Extract or Dir Inj. Capillary	NPW11.15390 NPW11.15400 NPW11.15410 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15490 NPW11.15490 NPW11.15490 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.17510 NPW11.17540 NPW11.17760 NPW11.17760 NPW11.17760 NPW11.17780 NPW11.17800	Yes	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2003 7/1/2005
Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,3-) Trichiorobenzene (1,2,4-) Trichiorobenzene (1,1,2-) Trichiorobenzene (1,1,1-) Trichiorobenzene (1,1,2-) Trichiorothane (1,1,1-) Trichiorothane (1,1,2-) Trichiorothane (1,2,3-) Trichiorothane (1,3,3-) Trinebtybenzene (1,3,3-) Trichiorobenzene (1,3,3-) Tri	NPW	Certified	SW-946 8250C SW-946 8270D	Capillary  GCMS, P & T or Direct Injection,  GCMS, Extract or Direct	NPW11.15390 NPW11.15410 NPW11.15410 NPW11.15420 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15510 NPW11.15510 NPW11.15520 NPW11.15530 NPW11.15545 NPW11.15545 NPW11.17750 NPW11.17760 NPW11.17760 NPW11.17760 NPW11.17760 NPW11.17760 NPW11.17760 NPW11.17760 NPW11.17760 NPW11.17840 NPW11.17850	Yes	222222222222222222222222222222222222222	7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2003
Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,3-) Trichiorobenzene (1,2,4-) Trichiorobenzene (1,1,2-) Trichioroethane (1,1,1-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichiorofthoromethane Trichiorofthoromethane Trichiorofthoromethane Trichiorofthoromethane Trichiorofthoromethane Trichiorofthoromethane (1,3,3-) Trimethylbenzene (1,3,5-) Vinyl accetate Vinyl chloride Xylene (m-) Xylene (m-) Xylene (p-) Xylene (p-) Xylene (p-) Xylene (p-) Xylene (p-) Acenaphthene Acetaphthoromethane Acetaphthoromethane Acetaphthoromethane Acetaphthoromethane Acetaphthoromethane Benzologianthoromethane	NPW	Certified	SW-946 8250C SW-946 8270D	Capillary  GOMS, P & T or Direct Injection, GCMS, Extract or Dir Inj. GCMS, Extract or DIR In	NPW11.15390 NPW11.15400 NPW11.15410 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15500 NPW11.15500 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.15545 NPW11.17550 NPW11.17750 NPW11.17750 NPW11.17750 NPW11.17750 NPW11.17750 NPW11.17840 NPW11.17840 NPW11.17850	Yes	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7/1/2005 7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2003 7/1/2005
Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,3-) Trichiorobenzene (1,2,4-) Trichiorobenzene (1,2,4-) Trichiorobenzene (1,1,2-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane (1,2,3-) Trichioropropane (1,3,3-) Trichioropropane (1,3,3-) Trichioropropane (1,3,3-) Trimethylbenzene (1,2,4-) Trimethylbenzene (1,2,4-) Trimethylbenzene (1,3,5-) Viryl saetate Viryl chioride Xylene (n-) Xylene	NPW	Certified	SW-846 8250C SW-846 8270D	Capillary  GOMS, P & T or Direct Injection, GCMS, Extract or Dir Inj. Capillary	NPW11.15390 NPW11.15400 NPW11.15410 NPW11.15410 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15530 NPW11.15530 NPW11.15530 NPW11.15530 NPW11.15530 NPW11.17530 NPW11.17750	Yes	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2003 7/1/2005
Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,3-) Trichiorobenzene (1,2,4-) Trichiorobenzene (1,2,4-) Trichiorobenzene (1,1,1-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane (1,2,3-) Trichiorofuoromethane Trichiorofuoromethane Trichiorofuoromethane Trichiorofuoromethane Trichiorofuoromethane Trichiorofuoromethane Trichiorofuoromethane Trichiorofuoromethane (1,3,5-) Unividentalioromethane Unividentalioromethane Unividentalioromethane Unividentalioromethane Trichiorofuoromethane Trichiorofuoromethane Unividentalioromethane Trichioromethane	NPW	Certified	SW-946 8250C SW-946 8270D	Capillary  GOMS, P & T or Direct Injection, GCMS, Extract or Dir Inj. Capillary GCMS, Extract or Dir Inj. Capillary GCMS, Extract or Direct Injection, GCMS, Extrac	NPW11.15390 NPW11.15400 NPW11.15410 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15545 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.15545 NPW11.15545 NPW11.17750 NPW11.17760	Yes	222222222222222222222222222222222222222	7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005
Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,3-) Trichiorobenzene (1,2,4-) Trichiorobenzene (1,2,4-) Trichiorobenzene (1,1,1-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichiorotethane Trichiorofuoromethane Trichiorofuoromethane Trichiorofuoromethane Trichiorofuoromethane Trichiorofuoromethane (1,3,5-) Vinyi acetate Vinyi chioride Xylene (m-) Xylene (m-) Xylene (m-) Xylene (n-) Xyl	NPW	Certified	SW-946 8250C SW-946 8270D	Capillary  GOMS, P & T or Direct Injection, GCMS, Extract or Dir Inj. Capillary	NPW11.15390 NPW11.15400 NPW11.15410 NPW11.15410 NPW11.15420 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15490 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.17500 NPW11.17700 NPW11.17700 NPW11.17700 NPW11.17700 NPW11.17800 NPW11.17800 NPW11.17800 NPW11.17800 NPW11.17800 NPW11.17800 NPW11.17800 NPW11.17800 NPW11.17900 NPW11.18000 NPW11.18000	Yes	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005
Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,2-) Trichiorobenzene (1,2,2-) Trichiorobenzene (1,2,2-) Trichioroethane (1,1) Trichioroethane (1,1) Trichioroethane (1,1,2-) Trichioroethane (1,2,3-) Trichioroethane (1,3,3-) Trichioroethane (1,3,3-) Trinethylbenzene (1,3,3-) Trimethylbenzene (1,3,3-) Trichioroethylbenzene (1,3,3-) Trimethylbenzene (1,3	NPW	Certified	SW-946 8250C SW-946 8270D	Capillary  GOMS, P & T or Direct Injection, GCMS, Extract or Dir Inj. Capillary GCMS, Extract or Dir Inj. Capillary GCMS, Extract or Direct Injection, GCMS, Extrac	NPW11.15390 NPW11.15400 NPW11.15410 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15545 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.15545 NPW11.15545 NPW11.17750 NPW11.17760	Yes	222222222222222222222222222222222222222	7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005
Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,3-) Trichiorobenzene (1,2,4-) Trichiorobenzene (1,1,2-) Trichioroethane (1,1,1-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichiorofthoromethane Trichiorofthoromethane Trichiorofthoromethane Trichiorofthoromethane Trichiorofthoromethane (1,3,5-) Viryl acetate Viryl chiorofthoromethylenzene (1,3,5-) Viryl acetate Viryl chiorofthoromethylenzene (1,3,5-) Viryl acetate Viryl chiorofthoromethylenzene (1,3,5-) Viryl chiorofthoromethylene Acetaphthoromethylene Acetaphthoromethylene Acetaphthoromethylene Acetaphthoromethylene Acetaphthoromethylene Benzolaliophenol	NPW	Certified Certif	SW-946 8250C SW-946 8270D	Capillary  GOMS, P & T or Direct Injection, GCMS, Extract or Dir Inj. Capillary	NPW11.15390 NPW11.15400 NPW11.15410 NPW11.15410 NPW11.15410 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15490 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.17510 NPW11.17510 NPW11.17750	Yes	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005
Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,3-) Trichiorobenzene (1,2,4-) Trichiorobenzene (1,1,1-) Trichiorobenzene (1,1,1-) Trichiorobenzene (1,1,1-) Trichiorobenzene (1,1,2-) Trichiorofluoromethane Trichiorofluoromethane Trichiorofluoromethane Trichiorofluoromethane Trichiorobenzene (1,2,3-) Trimethylbenzene (1,3,3-) Trichiorophenone Enzologioliorophene Enzologioliorophene Elis (2-chioroelbyl) ether	NPW	Certified	SW-946 8250C SW-946 8270D	Capillary  GCMS, P & T or Direct Injection, GCMS, Extract or Dir Inj. Capillary	NPW11.15390 NPW11.15410 NPW11.15410 NPW11.15420 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15510 NPW11.15510 NPW11.15520 NPW11.15530 NPW11.15545 NPW11.15545 NPW11.17760	Yes	222222222222222222222222222222222222222	7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2003 7/1/2005
Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,2-) Trichiorobenzene (1,2,2-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane (1,2,2-) Trichioroffuoromethane Trichioroffuoromethane Trichioroffuoromethane Trichioroffuoromethane Trichioroffuoromethane Trichioroffuoromethane Trichioroffuoromethane Trichioroffuoromethane (1,3,5-) Vinyl existe Vinyl chioride Xylene (1,3,5-) Vinyl existe Vinyl chioride Xylene (1,3,5-) Xylene (1,3,5-	NPW	Certified	SW-946 8250C SW-946 8270D	Capillary  SCMS, P & T or Direct Injection, GCMS, Extract or Dir Inj. Capillary	NPW11.15390 NPW11.15400 NPW11.15410 NPW11.15410 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15440 NPW11.15440 NPW11.15450 NPW11.15450 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.15545 NPW11.17540 NPW11.17750 NPW11.17750 NPW11.17750 NPW11.17750 NPW11.17750 NPW11.17840 NPW11.17840 NPW11.17850 NPW11.18050	Yes	222222222222222222222222222222222222222	7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2003 7/1/2003 7/1/2004 7/1/2005
Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,3-) Trichiorobenzene (1,2,4-) Trichiorobenzene (1,2,4-) Trichiorobenzene (1,1,1-) Trichiorobenzene (1,1,1-) Trichiorobenzene (1,2,2-) Trichiorobenzene (1,2,3-) Trichiorofuoromethane Trichiorofuoromethane Trichiorofuoromethane Trichiorofuoromethane Trichiorofuoromethane (1,3,5-) Vinyi scetate Vinyi chioride Xylene (m-) Xylene (m-) Xylene (m-) Xylene (b-) Xyle	NPW	Certified	SW-946 \$250C SW-946 \$270D	Capillary  GOMS, P & T or Direct Injection, GCMS, Extract or Dir Inj. Capillary	NPW11.15390 NPW11.15400 NPW11.15410 NPW11.15410 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.17500 NPW11.17500 NPW11.17700 NPW11.17700 NPW11.17700 NPW11.17800 NPW11.17800 NPW11.17800 NPW11.17800 NPW11.17810	Yes	222222222222222222222222222222222222222	7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005
Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,2-) Trichiorobenzene (1,2,2-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane (1,2,2-) Trichioroffuoromethane Trichioroffuoromethane Trichioroffuoromethane Trichioroffuoromethane Trichioroffuoromethane Trichioroffuoromethane Trichioroffuoromethane Trichioroffuoromethane (1,3,5-) Vinyl existe Vinyl chioride Xylene (1,3,5-) Vinyl existe Vinyl chioride Xylene (1,3,5-) Xylene (1,3,5-	NPW	Certified	SW-946 8250C SW-946 8270D	Capillary  SCMS, P & T or Direct Injection, GCMS, Extract or Dir Inj. Capillary	NPW11.15390 NPW11.15400 NPW11.15410 NPW11.15410 NPW11.15430 NPW11.15430 NPW11.15430 NPW11.15440 NPW11.15440 NPW11.15450 NPW11.15450 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.15510 NPW11.15545 NPW11.17540 NPW11.17750 NPW11.17750 NPW11.17750 NPW11.17750 NPW11.17750 NPW11.17840 NPW11.17840 NPW11.17850 NPW11.18050	Yes	222222222222222222222222222222222222222	7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2003 7/1/2005



Caprolactam	NPW	Certified	SW-846 8270D	GCMS, Extract or Dir Inj., Capillary	NPW11.18100	Yes	NJ	11/17/2009
Carbazole	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.18110	Yes	NJ	7/1/2002
Chioroaniline (4-)	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.18150	Yes	NJ	7/1/2002
Chlorobenzilate	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.18160	Yes	NJ	7/1/2005
Chloronaphthalene (2-)	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.18180	Yes	NJ	7/1/2002
Chiorophenol (2-)	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.18190	Yes	NJ	7/1/2002
Chlorophenyl-phenyl ether (4-)	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.18200	Yes	NJ	7/1/2002
Chrysene	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.18210	Yes	NJ	7/1/2002
Decane (n-)	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.18250	Yes	NJ	10/15/2010
Dialiate (cis)	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.18270	Yes	NJ	12/1/2006
Dialiate (trans)	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.18280	Yes	NJ	12/1/2006
Dibenz(a,h)acridine	NPW	Certified	SW-846 8270D	GCMS, Extract or Dir Inj, Capillary	NPW11.18290	Yes	NJ	12/1/2006
Dibenzo(a,h)anthracene Dibenzofuran	NPW	Certified Certified	SW-846 8270D SW-846 8270D	GCMS, Extract or Dir Inj. Capillary	NPW11.18320 NPW11.18360	Yes Yes	NJ NJ	7/1/2002 7/1/2002
Dichiorobenzene (1.2-)	NPW	Certified	SW-846 8270D	GCMS, Extract or Dir Inj, Capillary GCMS, Extract or Dir Inj, Capillary	NPW11.18370	Yes	NJ	7/1/2004
Dichlorobenzene (1,3-)	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capitary	NPW11.18380	Yes	NJ	7/1/2004
Dichlorobenzene (1,4-)	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.18390	Yes	NJ	7/1/2002
Dichlorobenzidine (3,3'-)	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.18400	Yes	NJ	7/1/2002
Dichlorophenol (2,4-)	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.18410	Yes	NJ	7/1/2002
Dichlorophenol (2,6-)	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.18420	Yes	NJ	12/1/2006
Diethyl phthalate	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.18440	Yes	NJ	7/1/2002
Dimethoate	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.18450	Yes	NJ	12/1/2006
Dimethyl benzidine (3,3-)	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.18460	Yes	NJ	12/1/2006
Dimethyl phthalate	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.18470	Yes	r,	7/1/2002
Dimethylaminoazobenzene	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.18480	Yes	NJ	12/1/2006
Directly benefit partitioned (1,12	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.18530	Yes	NJ	12/1/2006
Dimethylphenol (2,4-)	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.18540	Yes	NJ	7/1/2002
Di-n-butyl phthalate	NPW	Certified	SW-846 8270D	GCMS, Extract or Dir Inj, Capillary	NPW11.18550	Yes	NJ	7/1/2002
Dinitrobenzene (1,3-)	NPW	Certified	SW-846 8270D	GCMS, Extract or Dir Inj. Capillary	NPW11.18560	Yes	NJ NJ	12/1/2006
Dinitrophenol (2,4-)	NPW NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary GC/MS, Extract or Dir Inj, Capillary	NPW11.18580 NPW11.18590	Yes Yes	NJ	7/1/2002
Dinitrophenol (2-methyl-4,6-) Dinitrophenol (2-4-)	NPW	Certified Certified	SW-846 8270D SW-846 8270D	GCMS, Extract or Dir Inj. Capitary	NPW11.18590 NPW11.18600	Yes	NJ NJ	7/1/2002 7/1/2002
Dinitrotoluene (2,4-) Dinitrotoluene (2,6-)	NPW	Certified	SW-846 8270D SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.18600 NPW11.18610	Yes	NJ NJ	7/1/2002
Dintrotoluene (2,6-) Di-n-octyl phthalate	NPW	Certified	SW-846 8270D	GCMS, Extract or Dir Inj, Capitary	NPW11.18610 NPW11.18620	Yes	NJ	7/1/2002
Dinoseb	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.18630	Yes	NJ	7/1/2005
Diphenylamine	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.18640	Yes	NJ	7/1/2002
Diphenylhydrazine (1,2-)	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.18650	Yes	NJ	12/1/2006
Disuffoton	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.18660	Yes	NJ	7/1/2005
Famphur	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.18740	Yes	NJ	12/1/2006
Fluoranthene	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.18750	Yes	NJ	7/1/2002
Fluorene	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.18760	Yes	NJ	7/1/2002
Hexachiorobenzene	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.18790	Yes	NJ	7/1/2002
Hexachiorobutadiene (1,3-)	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.18800	Yes	NJ	7/1/2002
Hexachiorocyclopentadiene	NPW	Certified	SW-846 8270D	GCMS, Extract or Dir Inj, Capillary	NPW11.18810	Yes	NJ	7/1/2002
Hexachloroethane	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.18820	Yes	NJ	7/1/2002
Hexachiorophene	NPW	Certified Certified	SW-846 8270D SW-846 8270D	GCMS, Extract or Dir Inj, Capillary	NPW11.18830	Yes	NJ	12/1/2006
Hexachloropropene	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary GC/MS, Extract or Dir Inj, Capillary	NPW11.18840 NPW11.18850	Yes Yes	NJ NJ	7/1/2002 2/4/2010
Hydroquinone Indene	NPW	Certified	SW-846 8270D	GCMS, Extract or Dir Inj, Capitary	NPW11.18860	Yes	NJ	9/8/2016
Indeno(1,2,3-cd)pyrene	NPW	Certified	SW-846 8270D	GCMS, Extract or Dir Inj, Capitary	NPW11.18870	Yes	NJ	7/1/2002
Isodrin	NPW	Certified	SW-846 8270D	GCMS, Extract or Dir Inj, Capillary	NPW11.18880	Yes	NJ	7/1/2005
Isophorone	NPW	Certified	SW-846 8270D	GCMS, Extract or Dir Inj. Capillary	NPW11.18890	Yes	NJ	7/1/2002
Isosafroie (cis-)	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.18900	Yes	NJ	12/1/2006
Isosafroie (trans-)		Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.18910	Yes	NJ	12/1/2006
Kepone	NPW		SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.18920	Yes	NJ	7/1/2005
	NPW	Certified						
Methanesulfonate (Ethyl-)		Certified Certified	SW-846 8270D	GC/MS, Extract or Dir Inj., Capillary	NPW11.18940	Yes	NJ	12/1/2006
	NPW NPW			GCMS, Extract or Dir Inj, Capillary GCMS, Extract or Dir Inj, Capillary		Yes		12/1/2006
Methanesulfonate (Ethyl-)	NPW NPW NPW	Certified Certified Certified	SW-846 8270D SW-846 8270D SW-846 8270D	GCMS, Extract or Dir Inj, Capillary GCMS, Extract or Dir Inj, Capillary	NPW11.18940 NPW11.18950 NPW11.18960	Yes Yes	NJ NJ	
Methanesulfonate (Ethyl-) Methanesulfonate (Methyl-) Methapyrllene Methyl phenol (4-chloro-3-)	NPW NPW NPW NPW	Certified Certified Certified Certified	SW-845 8270D SW-845 8270D SW-845 8270D SW-845 8270D	GCMS, Extract or Dir Inj, Capillary GCMS, Extract or Dir Inj, Capillary GCMS, Extract or Dir Inj, Capillary	NPW11.18940 NPW11.18950 NPW11.18960 NPW11.18980	Yes Yes Yes	NJ NJ NJ	12/1/2006 12/1/2006 7/1/2002
Methanesuffonate (Ethyl-) Methanesuffonate (Methyl-) Methapyrilene Methyl phenol (4-chloro-3-) Methylcholanthrene (3-)	NPW NPW NPW NPW NPW	Certified Certified Certified Certified Certified	SW-846 8270D SW-846 8270D SW-846 8270D SW-846 8270D SW-846 8270D	GCMS, Extract or Dir Inj, Capillary GCMS, Extract or Dir Inj, Capillary GCMS, Extract or Dir Inj, Capillary GCMS, Extract or Dir Inj, Capillary	NPW11.18940 NPW11.18950 NPW11.18960 NPW11.18980 NPW11.18990	Yes Yes Yes Yes	22 22 23 23 23	12/1/2006 12/1/2006 7/1/2002 4/23/2009
Methanesulfonate (Ethyl-) Methanesulfonate (Methyl-) Methapyrilene Methyl phenol (4-chloro-3-) Methylcholanthrene (3-) Methylnaphthalene (1-)	NPW NPW NPW NPW NPW NPW	Certified Certified Certified Certified Certified Certified	SW-845 8270D SW-845 8270D SW-845 8270D SW-846 8270D SW-846 8270D SW-846 8270D SW-845 8270D	GCMS, Extract or Dir Inj, Capillary	NPW11.18940 NPW11.18950 NPW11.18960 NPW11.18980 NPW11.18990 NPW11.19000	Yes Yes Yes Yes Yes	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	12/1/2006 12/1/2006 7/1/2002 4/23/2009 1/23/2012
Methanesulfonate (Ethyl-) Methanesulfonate (Methyl-) Methapyllene Methyl phenol (4-chloro-3-) Methylcholanthrene (3-) Methylnaphthalene (1-) Methylnaphthalene (2-)	NPW NPW NPW NPW NPW NPW NPW	Certified Certified Certified Certified Certified Certified Certified	SW-846 8270D SW-846 8270D SW-946 8270D SW-946 8270D SW-946 8270D SW-946 8270D SW-946 8270D	GCMS, Extract or Dir Inj, Capillary	NPW11.18940 NPW11.18950 NPW11.18960 NPW11.18980 NPW11.18990 NPW11.19000 NPW11.19010	Yes Yes Yes Yes Yes Yes	22 22 22 22 22 22 22 22 22 22 22 22 22	12/1/2006 12/1/2006 7/1/2002 4/23/2009 1/23/2012 7/1/2002
Methanesuffonate (Methyl-) Methanesuffonate (Methyl-) Methapylliene Methyl phenol (4-chloro-3-) Methylcholarthrene (3-) Methylnaphthalene (1-) Methylnaphthalene (2-) Methylnaphthalene (2-)	NPW NPW NPW NPW NPW NPW NPW NPW	Certified Certified Certified Certified Certified Certified Certified Certified	SW-846 8270D SW-846 8270D SW-846 8270D SW-846 8270D SW-846 8270D SW-846 8270D SW-846 8270D SW-846 8270D SW-846 8270D	GGMS, Extract or Dir Inj. Capillary GCMS, Extract or Dir Inj. Capillary	NPW11.18940 NPW11.18950 NPW11.18960 NPW11.18980 NPW11.18990 NPW11.19900 NPW11.19010 NPW11.19010	Yes Yes Yes Yes Yes Yes Yes	2222222	12/1/2006 12/1/2006 7/1/2002 4/23/2009 1/23/2012 7/1/2002 7/1/2002
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Methanesuffonate (Methyl-) Methanesuffonate (Methyl-) Methapylliene Methyl phenol (4-chloro-3-) Methylcholarthrene (3-) Methylnaphthalene (1-) Methylnaphthalene (2-) Methylnaphthalene (2-)	NPW NPW NPW NPW NPW NPW NPW NPW	Certified Certified Certified Certified Certified Certified Certified Certified	SW-846 8270D SW-846 8270D SW-846 8270D SW-846 8270D SW-846 8270D SW-846 8270D SW-846 8270D SW-846 8270D SW-846 8270D	GGMS, Extract or Dir Inj. Capilary GCMS, Extract or Dir Inj. Capilary GCMS, Extract or Dir Inj. Capilary GGMS, Extract or Dir Inj. Capilary GGMS, Extract or Dir Inj. Capilary GCMS, Extract or Dir Inj. Capilary GCMS, Extract or Dir Inj. Capilary GGMS, Extract or Dir Inj. Capilary GGMS, Extract or Dir Inj. Capilary GCMS, Extract or Dir Inj. Capilary GCMS, Extract or Dir Inj. Capilary	NPW11.18940 NPW11.18950 NPW11.18960 NPW11.18980 NPW11.18990 NPW11.19900 NPW11.19010 NPW11.19010	Yes Yes Yes Yes Yes Yes Yes	2222222	12/1/2006 12/1/2006 7/1/2002 4/23/2009 1/23/2012 7/1/2002 7/1/2002
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Methanesurfonate (Ethyl-) Methanesurfonate (Methyl-) Methanesurfonate (Methyl-) Methapyrilene Methyl phenol (4-chloro-3-) Methylosphinatiene (3-) Methylosphinatiene (1-) Methylosphinatiene (2-) Methylosphinatiene (3-) Methylosphinatiene (3-) Methylosphinatiene (3-) Methylosphinatiene (3-) Methylosphinatiene (3-) Methylosphinatiene (3-) Naphithylosmine (1-) Naphithylosmine (2-) Nitroaniline (3-) Nitroaniline (4-) Nitroaniline (4-) Nitroaniline (4-) Nitrophenol (2-) Nitrophenol (2-) Nitrophenol (2-) Nitrophenol (3-) Nitrophenol (4-) N-Nitrosodiethylosmine N-Nitrosodiethylosmine	NPW	Certified	SW-945 8270D SW-946 8270D	GCMS, Extract or Dir Inj. Capillary	NPW11.18940 NPW11.18940 NPW11.18950 NPW11.18950 NPW11.18950 NPW11.18900 NPW11.19020 NPW11.19020 NPW11.19020 NPW11.19040 NPW11.19040 NPW11.19050 NPW11.19050 NPW11.19050 NPW11.19050 NPW11.19050 NPW11.19050 NPW11.19150	Yes	12 N N N N N N N N N N N N N N N N N N N	12/1/2005 12/1/2005 7/1/2002 4(23/2009) 1/23/2012 7/1/2002 7/1/2002 7/1/2002 12/1/2005 12/1/2005 12/1/2005 12/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002
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Methanesurfonate (Ethyl-) Methanesurfonate (Methyl-) Methapyrliene Methyl jhenol (4-chioro-3-) Methyl jhenol (4-chioro-3-) Methyl jhenol (4-chioro-3-) Methyl jhenol (2-) Mitoaniline (3-) Nitroaniline (3-) Nitroaniline (4-)	NPW	Certified	SW-946 8270D	GCMS, Extract or Dir Inj, Capillary	NPW11.19840 NPW11.19840 NPW11.19950 NPW11.19950 NPW11.19950 NPW11.19900 NPW11.19020 NPW11.19020 NPW11.19030 NPW11.19030 NPW11.19030 NPW11.19040 NPW11.19050 NPW11.19050 NPW11.19050 NPW11.19050 NPW11.19050 NPW11.19150	Yes	122 N. 20 N.	12/1/2006 12/1/2006 12/1/2002 4(23/2009) 1/23/2012 7/1/2002 7/1/2002 7/1/2002 12/1/2006 12/1/2006 12/1/2006 12/1/2006 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2003 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005
Methanesurfonate (Ethyl-) Methanesurfonate (Methyl-) Methapyrliene Methyl phenol (4-chloro-3-) Methylinaphthalene (1-) Methylinaphthalene (1-) Methylinaphthalene (2-) Methyliphenol (3-) Naphthylamine (1-) Naphthylamine (2-) Nitroaniline (3-) Nitroaniline (3-) Nitroaniline (3-) Nitroaniline (4-) Nitrobenzene Nitrophenol (4-) N-Nitrosodiethylamine N-Nitrosodiethylamine N-Nitrosod-in-propylamine N-Nitrosod-in-propylamine N-Nitrosod-gylamine	NPW	certified	SW-946 8270D	GCMS, Extract or Dir Inj. Capillary	NPW11.19840 NPW11.19840 NPW11.19950 NPW11.19950 NPW11.19950 NPW11.19900 NPW11.19010 NPW11.19010 NPW11.19040 NPW11.19050 NPW11.19050 NPW11.19050 NPW11.19050 NPW11.19050 NPW11.19050 NPW11.19150	Yes	162 N.3 N.5	12/1/2006 71/2006 71/2002 4(23/2009 1/23/2012 71/2002 71/2002 71/2002 71/2002 71/2002 12/1/2005 12/1/2005 71/2002 71/2002 71/2002 71/2002 71/2002 71/2002 71/2002 71/2002 71/2002 71/2002 71/2002 71/2002 71/2002 71/2002 71/2003 71/2003 71/2005 71/2005 71/2005 71/2005 71/2005
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Methanesurfonate (Ethyl-) Methanesurfonate (Methyl-) Methapyrliene Methyl phenol (4-chloro-3-) Methylophonol (3-) Methylophonol (4-) Naphhalene Naphoqulonol (1,4-) Naphhalene Naphoqulonol (1,4-) Naphhalene Naphoqulonol (1,4-) Naphhalene Naphoqulonol (2-) Nitroaniline (3-) Nitroaniline (3-) Nitroaniline (3-) Nitroaniline (4-) Nitrobenzene Nitrobenol (2-) Nitrophenol (2-) Nitrophenol (3-) Nitrophenol (3-) Nitrophenol (3-) Nitrophenol (4-) N-Nitrosodiethylamine N-Nitrosodiethylamine N-Nitrosodiethylamine N-Nitrosodiethylamine N-Nitrosodiethylamine N-Nitrosodiethylamine N-Nitrosomethylamine N-Nitrosomethylamine N-Nitrosomethylamine N-Nitrosomethylamine	NPW	certified	SW-946 8270D	GCMS, Extract or Dir Inj. Capillary	NPW11.19840 NPW11.19840 NPW11.19950 NPW11.19950 NPW11.19950 NPW11.19020 NPW11.19020 NPW11.19020 NPW11.19040 NPW11.19070 NPW11.19070 NPW11.19070 NPW11.19070 NPW11.19070 NPW11.19070 NPW11.19070 NPW11.19070 NPW11.19170 NPW11.19170 NPW11.19180	Yes	122 N. 20 N.	12/1/2006 12/1/2006 17/1/2002 4(23/2009) 4(23/2012) 7/1/2002 7/1/2002 7/1/2002 12/1/2006 12/1/2006 12/1/2006 12/1/2006 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005
Methanesurfonate (Ethyl-) Methanesurfonate (Methyl-) Methapyrilene Methyl phenol (4-chloro-3-) Methylinaphthalene (1-) Methylinaphthalene (1-) Methylinaphthalene (2-) Methylinaphthalene (2-) Methylinaphthalene (3-) Methylinaphthalene (3-) Methylinaphthalene Naphthylinaphthalene Naphthylinaphthalene Naphthylinaphthalene Naphthylinaphthalene Naphthylinaphthalene Naphthylinaphthalene Naphthylinaphthalene Naphthylinaphthalene Nitrophenol (2-) Nitroaniline (3-) N	NPW	Certified	SW-946 5270D	GCMS, Extract or Dir Inj. Capillary	NPW11.19840 NPW11.18950 NPW11.18950 NPW11.18950 NPW11.18950 NPW11.19000 NPW11.19010 NPW11.19010 NPW11.19010 NPW11.19050 NPW11.19050 NPW11.19050 NPW11.19050 NPW11.19050 NPW11.19050 NPW11.19050 NPW11.19050 NPW11.19150	Yes	N2 N	12/1/2006 12/1/2006 7/1/2002 4/23/2009 4/23/2012 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 12/1/2005 12/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2004 7/1/2005
Methanesurfonate (Ethyl-) Methanesurfonate (Methyl-) Methapyrliene Methyl phenol (4-chloro-3-) Methylinaphthalene (1-) Methylinaphthalene (1-) Methylinaphthalene (2-) Methylinaphthalene (2-) Methylinaphthalene (3-) Naphthylamine (1-) Naphthylamine (2-) Nitroaniline (3-) Nitroaniline (3-) Nitroaniline (4-) Nitrobenzene Nitroaniline (4-) Nitrobenzene Nitroaniline (4-) Nitrobenzene Nitroaniline (4-) Nitrobenzene N-Nitroaniline (4-) Nitrobenzene N-Nitroaniline (4-) N-Nitroaniline (	NPW	Certified	SW-946 8270D	GCMS, Extract or Dir Int, Capillary	NPW11.19840 NPW11.19840 NPW11.19950 NPW11.19950 NPW11.19950 NPW11.19020 NPW11.19020 NPW11.19020 NPW11.19030 NPW11.19040 NPW11.19040 NPW11.19050 NPW11.19050 NPW11.19050 NPW11.19050 NPW11.19170 NPW11.19170 NPW11.19150	Yes	12	12/1/2006 12/1/2006 7/1/2002 4/23/2009 1/23/2012 7/1/2002 7/1/2002 7/1/2002 12/1/2006 12/1/2006 12/1/2006 12/1/2006 12/1/2006 12/1/2006 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005
Methanesurfonate (Ethyl-) Methanesurfonate (Methyl-) Methapyrliene Methyl phenol (4-chloro-3-) Methylapyrlinene (1-) Methylaphthalene (1-) Methylaphthalene (1-) Methylaphthalene (2-) Methylaphthalene (3-) Methylaphthalene (3-) Methylaphthalene (3-) Methylaphthalene (3-) Methylaphthalene (3-) Methylamine (1-) Naphthylamine (1-) Naphthylamine (2-) Nitroaniline (3-) Nitroaniline (3-) Nitroaniline (3-) Nitroaniline (4-) Nitrobenzene Nitrophenol (2-) Nitroaniline (4-) N-Nitrosodiethylamine N-Nitrosodiethylamine N-Nitrosodiethylamine N-Nitrosodiethylamine N-Nitrosodiethylamine N-Nitrosodiethylamine N-Nitrosomethylamine	NPW	certified	SW-946 8270D	GCMS, Extract or Dir Inj. Capillary	NPW11.19840 NPW11.19850 NPW11.19950 NPW11.19950 NPW11.19900 NPW11.19000 NPW11.19000 NPW11.19000 NPW11.19000 NPW11.19000 NPW11.19010 NPW11.19050 NPW11.19050 NPW11.19050 NPW11.19050 NPW11.19050 NPW11.19050 NPW11.19100	Yes	N2 N	12/1/2006 71/2002 4(23/2009 4(23/2009 4(23/2009 1/23/2012 71/2005 71/2005
Methanesufonate (Bithyl-) Methanesufonate (Methyl-) Methapyriene Methyl phenol (4-choro-3-) Methylophanol (4-choro-3-) Methylophanol (2-) Methylophanol (2-) Methylophanol (3-) Naphhalene Naphhalene Naphhalene Naphhalene Naphhalene Naphhalene Naphhalene Nitroaniline (3-) Nitroaniline (3-) Nitroaniline (3-) Nitroaniline (4-) Nitrobenzene Nitrobenzene Nitrobenzene N-Nitrosodiethylamine N-Nitrosodiethylamine N-Nitrosodiethylamine N-Nitrosodiethylamine N-Nitrosodiethylamine N-Nitrosodiethylamine N-Nitrosodiethylamine N-Nitrosopperioline N-Nitrosopperioline N-Nitrosopopperioline N-Nitrosopopperioline	NPW   NPW	Certified	SW-946 8270D	GCMS, Extract or Dir Int, Capillary	NPW11.19840 NPW11.19840 NPW11.19950 NPW11.19950 NPW11.19950 NPW11.19020 NPW11.19020 NPW11.19020 NPW11.19030 NPW11.19040 NPW11.19040 NPW11.19050 NPW11.19050 NPW11.19050 NPW11.19050 NPW11.19170 NPW11.19170 NPW11.19150	Yes	12	12/1/2006 12/1/2006 12/1/2002 4(23/2009) 1/23/2012 7/1/2002 7/1/2002 7/1/2002 12/1/2006 12/1/2006 12/1/2006 12/1/2006 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005
Methanesurfonate (Ethyl-) Methanesurfonate (Methyl-) Methanesurfonate (Methyl-) Methanesurfonate (Methyl-) Methyl-) Meth	NPW   NPW	Certified	SW-945 8270D	GCMS, Extract or Dir Int, Capillary	NPW11.19840 NPW11.19840 NPW11.19950 NPW11.19950 NPW11.19950 NPW11.19900 NPW11.19010 NPW11.19020 NPW11.19020 NPW11.19030 NPW11.19030 NPW11.19030 NPW11.19030 NPW11.19030 NPW11.19030 NPW11.1910	Yes	122 N. 20 N.	12/1/2006 12/1/2006 12/1/2002 4/23/2009 4/23/2012 7/1/2002 7/1/2002 7/1/2002 7/1/2002 12/1/2006 12/1/2006 12/1/2006 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2004 7/1/2005 12/1/2006 7/1/2006
Methanesurfonate (Ethyl-) Methanesurfonate (Methyl-) Methapyrliene Methyl phenol (4-chloro-3-) Methylinaphthalene (1-) Methylinaphthalene (1-) Methylinaphthalene (1-) Methylinaphthalene (2-) Methylinaphthalene (2-) Methylinaphthalene (3-) Methylinaphthalene (3-) Methylinaphthalene (3-) Methylinaphthalene (3-) Methylinaphthalene (3-) Methylinaphthalene (3-) Maphthyliamine (1-) Naphthyliamine (2-) Nitroaniline (3-) Nitroaniline (3-) Nitroaniline (3-) Nitroaniline (4-) Nitroanil	NPW	certified	SW-946 8270D	GCMS, Extract or Dir Int, Capillary	NPW11.19840 NPW11.18940 NPW11.18950 NPW11.18950 NPW11.18950 NPW11.19000 NPW11.19000 NPW11.19000 NPW11.19000 NPW11.19000 NPW11.19010 NPW11.19050 NPW11.19050 NPW11.19050 NPW11.19050 NPW11.19050 NPW11.19050 NPW11.19050 NPW11.19100	Yes	122 N. 20 N.	12/1/2005 12/1/2005 4/23/2009 4/23/2012 7/1/2002 7/1/2002 7/1/2002 7/1/2002 12/1/2005 12/1/2005 12/1/2005 12/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005
Methanesurfonate (Ethyl-) Methanesurfonate (Methyl-) Methapyriene Methyl phenol (4-chloro-3-) Methylinghinthrene (3-) Methylinghinthrene (4-) Naphthriame Naphthriamine (1-) Naphthriamine (1-) Nitroaniline (3-) Nitroaniline (3-) Nitroaniline (3-) Nitroaniline (3-) Nitroaniline (3-) Nitroaniline (4-) Nitrobenzene Nitrophenol (3-) Nitrobenzene Nitrophenol (4-) N-Nitrosodiethylamine N-Nitrosodiethylamine N-Nitrosodiethylamine N-Nitrosophymidine N-Nitrosophymidin	NPW	Certified	SW-946 8270D	GCMS, Extract or Dir Int, Capillary	NPW11.19840 NPW11.19840 NPW11.19850 NPW11.19850 NPW11.19850 NPW11.19000 NPW11.19000 NPW11.19000 NPW11.19000 NPW11.19000 NPW11.19010 NPW11.19050 NPW11.19050 NPW11.19050 NPW11.19050 NPW11.19050 NPW11.19100 NPW11.19300 NPW11.19300 NPW11.19300 NPW11.19300 NPW11.19300	Yes	N2 N	12/1/2005 71/2002 4(23/2009) 4(23/2009) 4(23/2009) 4(23/2009) 71/2002 71/2002 71/2002 71/2002 71/2002 71/2005 71/2005 71/2002 71/2002 71/2004 71/2004 71/2004 71/2005
Methanesurfonate (Ethyl-) Methanesurfonate (Methyl-) Methanesurfonate (Methyl-) Methapyritene Methyl phenol (4-chloro-3-) Methyl phenol (4-chloro-3-) Methyl phenol (3-) Methyl phenol (4-) Methyl phenol (4-) Naphthylamine (1-) Naphthylamine (1-) Naphthylamine (2-) Nitroaniline (3-) Nitroaniline (3-) Nitroaniline (4-) Nitroaniline (	NPW   NPW	Certified	SW-946 8270D	GCMS, Extract or Dir Int, Capillary	NPW11.19340 NPW11.1950 NPW11.1950 NPW11.1950 NPW11.1950 NPW11.19020 NPW11.19020 NPW11.19030 NPW11.19030 NPW11.19040 NPW11.19040 NPW11.19050 NPW11.19050 NPW11.19050 NPW11.19050 NPW11.19050 NPW11.19150 NPW11.19350	Yes	12	12/1/2006 12/1/2006 12/1/2002 4/23/2009 4/23/2012 7/1/2002 7/1/2002 7/1/2002 7/1/2002 12/1/2006 12/1/2006 12/1/2006 12/1/2006 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2004 7/1/2005 12/1/2006 7/1/2005 12/1/2006 7/1/2006 7/1/2007 7/1/2005 12/1/2006 7/1/2005
Methanesurfonate (Ethyl-) Methanesurfonate (Methyl-) Methapyriene Methyl phenol (4-chloro-3-) Methylinghinthrene (3-) Methylinghinthrene (4-) Naphthriame Naphthriamine (1-) Naphthriamine (1-) Nitroaniline (3-) Nitroaniline (3-) Nitroaniline (3-) Nitroaniline (3-) Nitroaniline (3-) Nitroaniline (4-) Nitrobenzene Nitrophenol (3-) Nitrobenzene Nitrophenol (4-) N-Nitrosodiethylamine N-Nitrosodiethylamine N-Nitrosodiethylamine N-Nitrosophymidine N-Nitrosophymidin	NPW	Certified	SW-946 8270D	GCMS, Extract or Dir Int, Capillary	NPW11.19840 NPW11.19840 NPW11.19950 NPW11.19950 NPW11.19950 NPW11.19900 NPW11.19010 NPW11.19010 NPW11.19040 NPW11.19040 NPW11.19070 NPW11.19070 NPW11.19070 NPW11.19070 NPW11.19170 NPW11.19180 NPW11.19170 NPW11.19180	Yes	N2 N	12/1/2005 71/2002 4(23/2009) 4(23/2009) 4(23/2009) 4(23/2009) 71/2002 71/2002 71/2002 71/2002 71/2002 71/2005 71/2005 71/2002 71/2002 71/2004 71/2004 71/2004 71/2005



Ph			C.W. A. & A.	COMP. Extra a State Continue		w	les s	TH. 2002
Phenol Phenylenediamine (1,4-)	NPW NPW	Certified Certified	SW-846 8270D SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary GC/MS, Extract or Dir Inj, Capillary	NPW11.19410 NPW11.19420	Yes	NJ NJ	7/1/2002 12/1/2006
Phenylethylamine (alpha, alpha-	NPW	Certified			NPW11.19430	Yes	NJ	12/1/2006
Dimetryl)			SW-846 8270D	GC/MS, Extract or Dir Inj., Capillary				
Phorate	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.19440	Yes	NJ	7/1/2009
Phosphorothioate (O,O,O-triethyl) Phosphorothioate (diethyl-O-2-	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.19450	Yes	NJ	12/1/2006
pyrazinyi) [Thionazin]	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.19460	Yes	NJ	12/1/2006
Picoline (2-)	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.19470	Yes	NJ	7/1/2005
Pronamide	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.19480	Yes	NJ	7/1/2005
Pyrene	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.19490	Yes	NJ	7/1/2002
Pyridine	NPW	Certified Certified	SW-846 8270D	GCMS, Extract or Dir Inj. Capillary	NPW11.19500	Yes	NJ	7/1/2002 9/8/2016
Quinoline Quinoline -1-Oxide (4-Nitro)	NPW	Certified	SW-846 8270D SW-846 8270D	GCMS, Extract or Dir Inj, Capillary GCMS, Extract or Dir Inj, Capillary	NPW11.19510 NPW11.19520	Yes Yes	NJ NJ	12/1/2006
Safrole	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj. Capillary	NPW11.19530	Yes	NJ	12/1/2006
Tetrachlorobenzene (1,2,4,5-)	NPW	Certified	SW-846 8270D	GCMS, Extract or Dir Inj, Capillary	NPW11.19580	Yes	NJ	7/1/2005
Tetrachiorophenol (2,3,4,6-)	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.19590	Yes	NJ	12/1/2006
Toluidine (2-) (2-Methylanlline)	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.19600	Yes	NJ	7/1/2005
Toluidine (5-nitro-2-)	NPW	Certified	SW-846 8270D	GCMS, Extract or Dir Inj. Capillary	NPW11.19620	Yes	NJ	12/1/2006
Trichlorobenzene (1,2,4-) Trichlorophenol (2,4,5-)	NPW	Certified Certified	SW-846 8270D SW-846 8270D	GCMS, Extract or Dir Inj, Capillary GCMS, Extract or Dir Inj, Capillary	NPW11.19640 NPW11.19650	Yes Yes	NJ NJ	7/1/2002 7/1/2002
Trichlorophenol (2.4.6-)	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.19660	Yes	NJ	7/1/2002
Trinitrobenzene (1,3,5-)	NPW	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.19680	Yes	NJ	12/1/2006
Acenaphthene	NPW	Certified	SW-846 8270D	GC/MS/SIM, Extract or Dir Inj, Capillary	NPW11.19690	Yes	NJ	5/18/2015
Acenaphthylene	NPW	Certified	SW-846 8270D	GC/MS/SIM, Extract or Dir Inj, Capillary	NPW11.19700	Yes	NJ	5/18/2015
Anthracene	NPW	Certified	SW-846 8270D	GC/MS/SIM, Extract or Dir Inj, Capillary	NPW11.19710	Yes	NJ	5/18/2015
Benzo(a)anthracene	NPW	Certified	SW-846 8270D	GC/MS/SIM, Extract or Dir Inj. Capillary	NPW11.19720	Yes	NJ	1/2/2007
Benzo(a)pyrene	NPW	Certified	SW-846 8270D	GCMS/SIM, Extract or Dir Inj. Capillary	NPW11.19730	Yes	NJ NJ	1/2/2007
Benzo(b)fluoranthene Benzo(ahl/nep/lene	NPW NPW	Certified Certified	SW-846 8270D SW-846 8270D	GCMS/SIM, Extract or Dir inj, Capillary GCMS/SIM. Extract or Dir inj. Capillary	NPW11.19740 NPW11.19750	Yes Yes	NJ NJ	1/2/2007 5/15/2015
Benzo(ghl)perylene Benzo(k)fluoranthene	NPW	Certified	SW-846 8270D	GC/MS/SIM, Extract or Dir Inj, Capitary	NPW11.19750 NPW11.19760	Yes	NJ NJ	1/2/2007
Chrysene	NPW	Certified	SW-846 8270D	GC/MS/SIM, Extract or Dir Inj, Capillary	NPW11.19770	Yes	NJ	5/18/2015
Dibenzo(a,h)anthracene	NPW	Certified	SW-846 8270D	GC/MS/SIM, Extract or Dir Inj., Capillary	NPW11.19780	Yes	NJ	1/2/2007
Dinitrophenol (2-methyl-4,6-)	NPW	Certified	SW-846 8270D	GC/MS/SIM, Extract or Dir Inj., Capillary	NPW11.19790	Yes	NJ	12/1/2015
Dioxane (1,4-)	NPW	Certified	SW-846 8270D	GC/MS/SIM, Extract or Dir Inj, Capillary	NPW11.19794	Yes	NJ	12/1/2015
Fluoranthene Fluorene	NPW	Certified Certified	SW-846 8270D SW-846 8270D	GC/MS/SIM, Extract or Dir Inj, Capillary GC/MS/SIM, Extract or Dir Inj, Capillary	NPW11.19800 NPW11.19810	Yes Yes	NJ NJ	5/18/2015
Hexachlorobenzene	NPW	Certified	SW-846 8270D SW-846 8270D	GCMS/SIM, Extract or Dir Inj, Capillary GCMS/SIM. Extract or Dir Inj. Capillary	NPW11.19810 NPW11.19820	Yes	NJ NJ	1/2/2007
Hexachlorobutadiene (1,3-)	NPW	Certified	SW-846 8270D	GC/MS/SIM, Extract or Dir Inj, Capitary	NPW11.19830	Yes	NJ	12/1/2015
Indeno(1,2,3-cd)pyrene	NPW	Certified	SW-846 8270D	GC/MS/SIM, Extract or Dir Inj. Capillary	NPW11.19840	Yes	NJ	5/18/2015
Methylnaphthalene (2-)	NPW	Certified	SW-846 8270D	GC/MS/SIM, Extract or Dir Inj. Capillary	NPW11.19860	Yes	NJ	1/2/2007
Naphthalene	NPW	Certified	SW-846 8270D	GC/MS/SIM, Extract or Dir Inj., Capillary	NPW11.19870	Yes	NJ	5/18/2015
Pentachiorophenol	NPW	Certified	SW-846 8270D	GC/MS/SIM, Extract or Dir Inj., Capillary	NPW11.19890	Yes	NJ	1/23/2012
Phenanthrene	NPW	Certified	SW-846 8270D	GC/MS/SIM, Extract or Dir Inj, Capillary	NPW11.19900	Yes	NJ	7/26/2013
Pyrene	NPW NPW	Certified	SW-846 8270D	GC/MS/SIM, Extract or Dir inj, Capillary Extract, GC/MS	NPW11.19910	Yes No	NJ	7/26/2013
Dichlorobenzene (1,2-) Dinoseb	NPW	Applied Applied	User Defined EPA 625 User Defined EPA 625	Extract, GC/MS	NPW11.20880 NPW11.20910	No	NJ NJ	3/7/2016 3/7/2016
Disuffoton	NPW	Applied	User Defined EPA 625	Extract, GC/MS	NPW11.20920	No	NJ	3/7/2016
Isodrin	NPW	Applied	User Defined EPA 625	Extract, GC/MS	NPW11.20930	No	NJ	3/7/2016
Parathion	NPW	Applied	User Defined EPA 625	Extract, GC/MS	NPW11.20940	No	NJ	3/7/2016
Parathion methyl	NPW	Applied	User Defined EPA 625	Extract, GC/MS	NPW11.20950	No	NJ	3/7/2016
Dioxane (1,4-)	NPW	Certified	User Defined SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	NPW11.21110	Yes	NJ	7/26/2013
1,1,1-Trifluoroethane	NPW	Certified	User Defined SW-846 8260B	GCMS, P & T or Direct Injection,	NPW11.21260	Yes	NJ	7/26/2013
1-Chioro-1,1-difluoroethane 1,1,1-Trifluoroethane	NPW NPW	Certified Certified	User Defined SW-846 8260B User Defined EPA 624	GCMS, P & T or Direct Injection, GCMS, P & T, Capillary Column	NPW11.21270 NPW11.21280	Yes Yes	NJ NJ	7/26/2013 7/26/2013
1,1-Dichioro-1-fluoroethane	NPW	Certified	User Defined EPA 624	GC/MS, P & T, Capillary Column	NPW11.21290	Yes	NJ	7/26/2013
1-Chioro-1,1-difluoroethane	NPW	Certified	User Defined EPA 624	GCMS, P & T, Capillary Column	NPW11.21300	Yes	NJ	7/26/2013
Dichlorodifluoromethane	NPW	Certified	User Defined EPA 624	GCMS, P & T, Capillary Column	NPW11.21600	Yes	NJ	7/1/2002
Naphthalene	NPW	Certified	User Defined EPA 624	GC/MS, P & T, Capillary Column	NPW11.21850	Yes	NJ	12/1/2006
Trichlorobenzene (1,2,4-)	NPW	Certified Certified	User Defined EPA 624	GCMS, P & T, Capillary Column	NPW11.21980 NPW11.22120	Yes Yes	NJ	8/20/2013
Ethylene glycol  Propylene glycol	NPW		User Defined SW-846 8260B	GC/MS/SIM, Direct Aqueous Injection			MII	44/45/55
Propylene glycol Acetone [40CFR136, Table 1F]	LAL AA			COMMUNICATION Princet Assessment Interffere			NJ NJ	11/12/2008
	NPW	Certified Applied	User Defined SW-846 8260B EPA 524.2	GC/MS/SIM, Direct Aqueous Injection GC/MS, P & T or Direct Injection.	NPW11.22130	Yes	NJ NJ	11/12/2008
Benzene [40CFR136, Table 1F]	NPW NPW	Applied Applied	User Defined SW-846 8260B EPA 524.2 EPA 524.2	GCMS/SIM, Direct Aqueous Injection GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,			NJ	
Benzene [40CFR136, Table 1F] Chlorobenzene [40CFR136, Table	NPW	Applied Applied	EPA 524.2 EPA 524.2	GCMS, P & T or Direct Injection,	NPW11.22130 NPW11.24001 NPW11.24010	Yes No No	NJ NJ	11/12/2008 7/1/2017 7/1/2017
Chloroberizene [40CFR136, Table 1F]	NPW	Applied Applied Applied	EPA 524.2 EPA 524.2 EPA 524.2	GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, Capillary	NPW11.22130 NPW11.24001 NPW11.24010 NPW11.24020	Yes No No No	NJ NJ	11/12/2008 7/1/2017 7/1/2017 7/1/2017
Chlorobenzene [40CFR136, Table 1F] Chloroform [40CFR136, Table 1F]	NPW NPW NPW	Applied Applied	EPA 524.2 EPA 524.2	GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, Capillary GCMS, P & T or Direct Injection,	NPW11.22130 NPW11.24001 NPW11.24010	Yes No No	NJ NJ	11/12/2008 7/1/2017 7/1/2017
Chloroberizene [40CFR136, Table 1F] Chloroform [40CFR136, Table 1F] Dichloroberizene (1,2-)	NPW	Applied Applied Applied	EPA 524.2 EPA 524.2 EPA 524.2	GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, Capillary GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	NPW11.22130 NPW11.24001 NPW11.24010 NPW11.24020	Yes No No No	NJ NJ	11/12/2008 7/1/2017 7/1/2017 7/1/2017
Chlorobenzene [40CFR136, Table 1F] Chloroform [40CFR136, Table 1F] Dichlorobenzene (1,2-) [40CFR136, Table 1F]	NPW NPW NPW	Applied Applied Applied Applied	EPA 524.2 EPA 524.2 EPA 524.2 EPA 524.2	GCMS, P & T or Direct injection, GCMS, P & T or Direct injection, GCMS, P & T or Direct injection, Capillary GCMS, P & T or Direct injection, GCMS, P & T or Direct injection, GCMS, P & T or Direct injection, Capillary	NPW11.22130 NPW11.24001 NPW11.24010 NPW11.24020 NPW11.24030 NPW11.24040	Yes No No No No	NJ NJ NJ NJ	11/12/2008 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017
Chloroberizene [40CFR136, Table 1F] Chloroform [40CFR136, Table 1F] Dichloroberizene (1,2-) [40CFR136, Table 1F] Dichloroethane (1,2-) [40CFR136,	NPW NPW NPW	Applied Applied Applied Applied	EPA 524.2 EPA 524.2 EPA 524.2 EPA 524.2	GCMS, P. & T or Direct Injection, GCMS, P. & T or Direct Injection, GCMS, P. & T or Direct Injection, Capillary GCMS, P. & T or Direct Injection, GCMS, P. & T or Direct Injection, Capillary GCMS, P. & T or Direct Injection,	NPW11.22130 NPW11.24001 NPW11.24010 NPW11.24020 NPW11.24030	Yes No No No No	NJ NJ NJ NJ	11/12/2008 7/1/2017 7/1/2017 7/1/2017 7/1/2017
Chiorobenzene (40CFR136, Table 1F) Chioroform (40CFR136, Table 1F) Dichiorobenzene (1,2-) (40CFR136, Table 1F) Dichioroethane (1,2-) (40CFR136, Table 1F)	NPW NPW NPW NPW	Applied Applied Applied Applied Applied Applied	EPA 524.2 EPA 524.2 EPA 524.2 EPA 524.2 EPA 524.2 EPA 524.2	GCMS, P & T or Direct injection, GCMS, P & T or Direct injection, GCMS, P & T or Direct injection, Capillary GCMS, P & T or Direct injection, GCMS, P & T or Direct injection, GCMS, P & T or Direct injection, Capillary	NPW11.22130 NPW11.24001 NPW11.24010 NPW11.24020 NPW11.24030 NPW11.24040 NPW11.24050	Yes No No No No No No	13 13 14 14 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	11/12/2008 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017
Chloroberizene [40CFR136, Table 1F] Chloroform [40CFR136, Table 1F] Dichloroberizene (1,2-) [40CFR136, Table 1F] Dichloroethane (1,2-) [40CFR136,	NPW NPW NPW	Applied Applied Applied Applied Applied	EPA 524.2 EPA 524.2 EPA 524.2 EPA 524.2 EPA 524.2	GCMS, P & T or Direct Injection, Capillary	NPW11.22130 NPW11.24001 NPW11.24010 NPW11.24020 NPW11.24030 NPW11.24040	Yes No No No No No	12 12 13 14 14 15 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	11/12/2008 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017
Chiorobenzene (40CFR136, Table 1F) Chioroform (40CFR136, Table 1F) Dichiorobenzene (1,2-) (40CFR136, Table 1F) Dichioroethane (1,2-) (40CFR136, Table 1F) Matble 1F) Pentanone (4-methyl-2-) (MIBK)	NPW NPW NPW NPW NPW	Applied Applied Applied Applied Applied Applied Applied Applied Applied	EPA 524.2 EPA 534.2 EPA 534.2 EPA 534.2 EPA 534.2 EPA 524.2 EPA 524.2	GCMS, P & T or Direct Injection, GGMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	NPW11.22130 NPW11.24001 NPW11.24010 NPW11.24020 NPW11.24030 NPW11.24040 NPW11.24050 NPW11.24060	Yes No No No No No No	EN E	11/12/2008 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017
Chiorobenzene (40CFR136, Table 1F) Chioroform (40CFR136, Table 1F) Dichiorobenzene (1,2-) (40CFR136, Table 1F) Dichioroethane (1,2-) (40CFR136, Table 1F) Methylene chioride (40CFR136, Table 1F) Pentanone (4-methyl-2-) (MIBK) (40CFR136, Table 1F)	NPW NPW NPW NPW	Applied Applied Applied Applied Applied Applied	EPA 524.2 EPA 524.2 EPA 524.2 EPA 524.2 EPA 524.2 EPA 524.2	GCMS, P. & T or Direct Injection, Capillary	NPW11.22130 NPW11.24001 NPW11.24010 NPW11.24020 NPW11.24030 NPW11.24040 NPW11.24050	Yes No No No No No No	13 13 14 14 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	11/12/2008 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017
Chiorobenzene (40CFR136, Table 1F) Chioroform (40CFR136, Table 1F) Dichiorobenzene (1,2-) (40CFR136, Table 1F) Dichiorostenane (1,2-) (40CFR136, Table 1F) Methylene chioride (40CFR136, Table 1F) Pentanone (4-methyl-2-) (MIBK) (40CFR136, Table 1F) Tetrahydrofuran (40CFR136,	NPW NPW NPW NPW NPW	Applied Applied Applied Applied Applied Applied Applied Applied Applied	EPA 524.2 EPA 534.2 EPA 534.2 EPA 534.2 EPA 534.2 EPA 524.2 EPA 524.2	GCMS, P & T or Direct Injection, Capillary GCMS, P & T or Direct Injection, Capillary GCMS, P & T or Direct Injection, Capillary GCMS, P & T or Direct Injection, Gapillary GCMS, P & T or Direct Injection, Gapillary GCMS, P & T or Direct Injection, Capillary GCMS, P & T or Direct Injection,	NPW11.22130 NPW11.24001 NPW11.24010 NPW11.24020 NPW11.24030 NPW11.24040 NPW11.24050 NPW11.24060	Yes No No No No No No	EN E	11/12/2008 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017
Chiorobenzene (40CFR136, Table 1F) Chioroform (40CFR136, Table 1F) Dichiorobenzene (1,2-) (40CFR136, Table 1F) Dichiorotehane (1,2-) (40CFR136, Table 1F) Methylene chioride (40CFR136, Table 1F) Pentanone (4-methyl-2-) (MIBK) (40CFR136, Table 1F) Tetrahydrofuran (40CFR136, Table 1F)	NPW NPW NPW NPW NPW NPW	Applied Certified	EPA 524.2 EPA 534.2 EPA 534.2 EPA 524.2 EPA 524.2 EPA 524.2 EPA 524.2 EPA 524.2 EPA 524.2	GCMS, P & T or Direct Injection, Capillary	NPW11.24130 NPW11.24010 NPW11.24010 NPW11.24020 NPW11.24030 NPW11.24040 NPW11.24050 NPW11.24050 NPW11.24070 NPW11.24070	Yes No	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	11/12/2008 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017
Chiorobenzene (40CFR136, Table 1F) Chioroform (40CFR136, Table 1F) Dichiorobenzene (1,2-) (40CFR136, Table 1F) Dichioroethane (1,2-) (40CFR136, Table 1F) Methylene chioride (40CFR136, Table 1F) Pentanone (4-methyl-2-) (MIBK) (40CFR136, Table 1F) Tetrahydrofuran (40CFR136, Table 1F) Toluene (40CFR136, Table 1F)	NPW NPW NPW NPW NPW NPW NPW	Applied Applied Applied Applied Applied Applied Applied Applied Applied Certified Applied	EPA 524.2	GCMS, P & T or Direct Injection, Capillary	NPW11.22130 NPW11.24010 NPW11.24010 NPW11.24010 NPW11.24020 NPW11.24040 NPW11.24050 NPW11.24060 NPW11.24070 NPW11.24080 NPW11.24080 NPW11.24080 NPW11.24080	Yes No	20 CM	11/12/2008 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017
Chiorobenzene (40CFR136, Table 1F) Chioroform (40CFR136, Table 1F) Dichiorobenzene (1,2-) (40CFR136, Table 1F) Dichiorobenane (1,2-) (40CFR136, Table 1F) Methylene chioride (40CFR136, Table 1F) Pentanone (4-methyl-2-) (MIBK) (40CFR136, Table 1F) Tetrahydrofuran (40CFR136, Table 1F) Tetrahydrofuran (40CFR136, Table 1F) Toluene (40CFR136, Table 1F) 1,1-Dichioro-1-fluoroethane	NPW NPW NPW NPW NPW NPW	Applied Applied Applied Applied Applied Applied Applied Applied Certified Applied Certified	EPA 524.2 EPA 534.2 EPA 534.2 EPA 524.2 EPA 524.2 EPA 524.2 EPA 524.2 EPA 524.2 EPA 524.2	GCMS, P & T or Direct Injection, Capillary	NPW11.22130 NPW11.24010 NPW11.24010 NPW11.24010 NPW11.24030 NPW11.24030 NPW11.24050 NPW11.24050 NPW11.24070 NPW11.24080 NPW11.24080 NPW11.24080 NPW11.24080 NPW11.24090 NPW16.00001	Yes No	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	11/12/2008 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017
Chiorobenzene (40CFR136, Table 1F) Chioroform (40CFR136, Table 1F) Dichiorobenzene (1,2-) (40CFR136, Table 1F) Dichioroethane (1,2-) (40CFR136, Table 1F) Methylene chloride (40CFR136, Table 1F) Pentanone (4-methyl-2-) (MIBK) (40CFR136, Table 1F) Tetrahydrofuran (40CFR136, Table 1F) Toluene (40CFR136, Table 1F) Toluene (40CFR136, Table 1F) Toluene (40CFR136, Table 1F) Toluene (40CFR136, Table 1F) User (40CFR136, Table 1F) User (40CFR136, Table 1F) User (40CFR136, Table 1F)	NPW NPW NPW NPW NPW NPW NPW NPW NPW	Applied Applied Applied Applied Applied Applied Applied Applied Applied Certified Applied	EPA 524.2 EPA 524.2 User Defined SW-846 8250B	GCMS, P & T or Direct Injection, Capillary GCMS, P & T or Direct Injection,	NPW11.22130 NPW11.24010 NPW11.24010 NPW11.24010 NPW11.24020 NPW11.24040 NPW11.24050 NPW11.24060 NPW11.24070 NPW11.24080 NPW11.24080 NPW11.24080 NPW11.24080	Yes No	20 CM	11/12/2008 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017
Chiorobenzene (40CFR136, Table 1F) Chioroform (40CFR136, Table 1F) Dichiorobenzene (1,2-) (40CFR136, Table 1F) Dichiorobenane (1,2-) (40CFR136, Table 1F) Methylene chioride (40CFR136, Table 1F) Pentanone (4-methyl-2-) (MIBK) (40CFR136, Table 1F) Tetrahydrofuran (40CFR136, Table 1F) Tetrahydrofuran (40CFR136, Table 1F) Toluene (40CFR136, Table 1F) 1,1-Dichioro-1-fluoroethane	NPW	Applied Applied Applied Applied Applied Applied Applied Applied Certified Certified Certified	EPA 524.2 User Defined SW-846 8260B User Defined TOEQ 1005	GCMS, P & T or Direct Injection, Capillary GCMS, P & T or Direct Injection, Exhaction, GC, FID	NPW11.24130 NPW11.24010 NPW11.24010 NPW11.24010 NPW11.24030 NPW11.24040 NPW11.24050 NPW11.24070 NPW11.24070 NPW11.24080 NPW11.24090 NPW11.24090 NPW16.00001 NPW16.00001 NPW16.00001	Yes No	2 C C C C C C C C C C C C C C C C C C C	11/12/2008 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017
Chiorobenzene (40CFR136, Table 1F) Chioroform (40CFR136, Table 1F) Dichiorobenzene (1,2-) (40CFR136, Table 1F) Dichioroethane (1,2-) (40CFR136, Table 1F) Dichioroethane (1,2-) (40CFR136, Table 1F) Pentanone (4-methyl-2-) (MBK) (40CFR136, Table 1F) Tetrahydrofuran (40CFR136, Table 1F) Toluene (40CFR136, Table 1F) Toluene (40CFR136, Table 1F) Toluene (40CFR136, Table 1F) Columnia (40CFR136, Table 1F) Toluene (40CFR136, Table 1F) Tetrahydrofurane (40CFR136, Table 1F)	NPW	Applied Certified	EPA 524.2 User Defined SW-945 9250B User Defined TOEQ 1005 SW-945 9091 SW-945 9095	GCMS, P & T or Direct Injection, Capillary GCMS, P & T or Direct Injection, Exhraction, GC, FID Soils, Sodium Acetate Combustion, Bomb Oxidation Flow-Through Paint Filter, Observation	NPW11.24130 NPW11.24010 NPW11.24010 NPW11.24010 NPW11.24020 NPW11.24050 NPW11.24060 NPW11.24060 NPW11.24080 NPW11.24080 NPW11.24090 NPW11.24090 NPW16.00001 NPW16.00001 NPW16.00001 NPW16.00001 NPW16.00001 SGM02.00020 SGM02.00030 SGM02.00130	Yes No	22	11/12/2008 7/1/2017
Chiorobenzene (40CFR136, Table 1F) Chioroform (40CFR136, Table 1F) Dichiorobenzene (1,2-) (40CFR136, Table 1F) Dichiorobethane (1,2-) (40CFR136, Table 1F) Methylene chioride (40CFR136, Table 1F) Pentanone (4-methyl-2-) (MIBK) (40CFR136, Table 1F) Tetrahydrofuran (40CFR136, Table 1F) Toluene (4-methyl-2-) (MIBK) (40CFR136, Table 1F) Toluene (40CFR136, Table 1F) 1,1-Dichioro-1-fluoroethane Dilesei range organic Caston-exchange capacity Chiorine - total, solid waste Free liquid Heat of combustion (BTU)	NPW	Applied Certified	EPA 524.2 SEPA 524.2 EPA 5	GCMS, P & T or Direct Injection, Capillary GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injecti	NPW11.22130 NPW11.24010 NPW11.24010 NPW11.24010 NPW11.24030 NPW11.24040 NPW11.24050 NPW11.24060 NPW11.24060 NPW11.24070 NPW11.24090 NPW11.24090 NPW11.24090 NPW11.24090 NPW11.24090 NPW15.00001 NPW16.00150 SCM02.00030 SCM02.00030 SCM02.00160	Yes No	2	11/12/2008 7/1/2017
Chiorobenzene (40CFR136, Table 1F) Chioroform (40CFR136, Table 1F) Dichiorobenzene (1,2-) (40CFR136, Table 1F) Dichiorotenane (1,2-) (40CFR136, Table 1F) Methylene chloride (40CFR136, Table 1F) Pentanone (4-methyl-2-) (MIBK) (40CFR136, Table 1F) Tetrahydrofuran (40CFR136, Table 1F) Toluene (40CFR136, Table 1F) Toluene (40CFR136, Table 1F) Toluene (40CFR136, Table 1F) Toluene (40CFR136, Table 1F) Colorione-1-fluoroethane Diesel range organic Cation-exchange capacity Chlorine - total, solid waste Free liquid Heat of combustion (BTU) Ignitability	NPW	Applied Certified	EPA 524.2 User Defined TOEQ 1005 SIW-946 9091 SIW-946 9095 ASTM D240 SIW-946 9095 ASTM D240	GCMS, P. & T or Direct Injection, Capillary GCMS, P. & T or Direct Injection, Gapillary GCMS, P. & T or Direct Injection, GCMS, P. & T or Direct I	NPW11.24130 NPW11.24010 NPW11.24010 NPW11.24010 NPW11.24030 NPW11.24050 NPW11.24050 NPW11.24050 NPW11.24070 NPW11.24070 NPW11.24070 NPW11.24070 NPW16.00001 NPW16.00001 NPW16.00001 SCM02.00050 SCM02.00130 SCM02.00130 SCM02.00180	Yes No	22	11/12/2008 7/1/2017
Chiorobenzene [40CFR136, Table 1F] Chioroform [40CFR136, Table 1F] Dichiorobenzene (1,2-) [40CFR136, Table 1F] Dichioroethane (1,2-) [40CFR136, Table 1F] Methylene chioride [40CFR136, Table 1F] Pentanone (4-methyl-2-) (MIBK) [40CFR136, Table 1F] Tetrahydrofuran [40CFR136, Table 1F] Totuene [40CFR136, Table 1F] 1,1-Dichioro-1-fluoroethane Diesel range organic Cation-exchange capacity Chiorine - total, solid waste Free liquid Heat of combustion (BTU) Ignitability H- soil and waste	NPW	Applied Certified	EPA 524.2 SW-945 9051 SW-945 9051 SW-945 9051 SW-945 9095 ASTM D240 SW-945 9095 ASTM D240 SW-945 9095 ASTM D240 SW-945 9045D	GCMS, P & T or Direct Injection, Capillary GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, Capillary GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injecti	NPW11.24130 NPW11.24010 NPW11.24010 NPW11.24010 NPW11.24020 NPW11.24050 NPW11.24050 NPW11.24060 NPW11.24060 NPW11.24070 NPW11.24090 NPW11.24090 NPW11.24090 NPW11.24090 NPW16.00001 NPW16.00001 SCM02.00050 SCM02.00160 SCM02.00160 SCM02.00160 SCM02.00160 SCM02.00170	Yes No	2	11/12/2008 7/1/2017
Chiorobenzene [40CFR136, Table 1F] Chioroform [40CFR136, Table 1F] Dichiorobenzene (1,2-) [40CFR136, Table 1F] Dichiorobenzene (1,2-) [40CFR136, Table 1F] Dichioroethane (1,2-) [40CFR136, Table 1F] Methylene chloride [40CFR136, Table 1F] Tetrahydrofuran [40CFR136, Table 1F] Toluene [40CFR136, Table 1F] Caston-exchange capacity Chlorine - total, solid waste Free [quid Heat of combustion (BTU) Ignitability pH - soli and waste Bromide	NPW	Applied Certified	EPA 524.2 User Defined SW-846 9250B User Defined TOEQ 1005 SW-845 9051 SW-845 9051 SW-845 9051 SW-845 1010A SW-845 1010A	GCMS, P & T or Direct Injection, Capillary GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, Formation, GC, FID Soils, Sodium Acetate Combustion, Bomb Oxidation Flow-Through Paint Filter, Observation Bomb Caloinmeter Pensky Martens Mix with Water or Calcium Chlorides Ion Chromatography	NPW11.24130 NPW11.24010 NPW11.24010 NPW11.24020 NPW11.24030 NPW11.24050 NPW11.24050 NPW11.24070 NPW11.24070 NPW11.24070 NPW11.24070 NPW16.01150 SCM02.00020 SCM02.00030 SCM02.00130 SCM02.00130 SCM02.00130 SCM02.00150 SCM02.00150 SCM02.00150 SCM02.00150 SCM02.00150 SCM02.00150 SCM02.00150 SCM02.00150 SCM02.00150 SCM02.00150 SCM02.00150 SCM02.00150	Yes No	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	11/12/2008 7/1/2017
Chiorobenzene [40CFR136, Table 1F] Chioroform [40CFR136, Table 1F] Dichiorobenzene (1,2-) [40CFR136, Table 1F] Dichioroethane (1,2-) [40CFR136, Table 1F] Methylene chioride [40CFR136, Table 1F] Pentanone (4-methyl-2-) (MIBK) [40CFR136, Table 1F] Tetrahydrofuran [40CFR136, Table 1F] Totuene [40CFR136, Table 1F] 1,1-Dichioro-1-fluoroethane Diesel range organic Cation-exchange capacity Chiorine - total, solid waste Free liquid Heat of combustion (BTU) Ignitability H- soil and waste	NPW NPW NPW NPW NPW NPW NPW NPW NPW SCM SCM SCM SCM SCM SCM SCM	Applied Certified	EPA 524.2 SW-945 9051 SW-945 9051 SW-945 9051 SW-945 9095 ASTM D240 SW-945 9095 ASTM D240 SW-945 9095 ASTM D240 SW-945 9045D	GCMS, P & T or Direct Injection, Capillary GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, Capillary GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injecti	NPW11.24130 NPW11.24010 NPW11.24010 NPW11.24010 NPW11.24020 NPW11.24050 NPW11.24050 NPW11.24060 NPW11.24060 NPW11.24070 NPW11.24090 NPW11.24090 NPW11.24090 NPW11.24090 NPW16.00001 NPW16.00001 SCM02.00050 SCM02.00160 SCM02.00160 SCM02.00160 SCM02.00160 SCM02.00170	Yes No	2	11/12/2008 7/1/2017
Chiorobenzene (40CFR136, Table 1F) Chioroform (40CFR136, Table 1F) Dichiorobenzene (1,2-) (40CFR136, Table 1F) Dichiorotenzene (1,2-) (40CFR136, Table 1F) Methylene chioride (40CFR136, Table 1F) Pentanone (4-methyl-2-) (MIBK) (40CFR136, Table 1F) Tetrahydrofuran (40CFR136, Table 1F) Toluene (40CFR136, Table 1F) Caton-exchange capacity Caton-exchange capacity Chiorine - tools, solid waste Free Ilquid Heat of combustion (BTU) Ignitability PH - soll and waste Bromide Bromide Chioride Chioride	NPW	Applied Certified	EPA 524.2 User Defined SW-945 92508 User Defined TCEQ 1005 SW-945 9051 SW-945 9055 ASTM D240 SW-945 9055 SW-945 9056 SW-945 9056	GCMS, P & T or Direct Injection, Gapillary GCMS, P & T or Direct Injection, Capillary GCMS, P & T or Direct Injection, Capillary GCMS, P & T or Direct Injection, Gapillary GCMS, P & T or Direct Injection, Gapillary GCMS, P & T or Direct Injection, Gapillary GCMS, P & T or Direct Injection, Borbardion, GC, FID Soils, Sodium Acetate Combustion, Bomb Oxidation Flow-Through Paint Filter, Observation Bomb Conformator Bomb Colorimeter Pensky Indexes Mix with Water or Calcium Chionides Inix with Water or Calcium Chionides Ion Chromatography Ion Chromatography Ion Chromatography	NPW11.24130 NPW11.24010 NPW11.24010 NPW11.24010 NPW11.24020 NPW11.24040 NPW11.24050 NPW11.24060 NPW11.24060 NPW11.24080 NPW11.24080 NPW11.24080 NPW11.24090 NPW16.00001 NPW16.00001 SCM02.00120 SCM02.00130	Yes No Yes	22	11/12/2008 7/1/2017
Chiorobenzene (40CFR136, Table 1F) Chioroform (40CFR136, Table 1F) Dichiorobenzene (1,2-) (40CFR136, Table 1F) Dichioroethane (1,2-) (40CFR136, Table 1F) Methylene chioride (40CFR136, Table 1F) Pentanone (4-methyl-2-) (MIBK) (40CFR136, Table 1F) Tetrahydrofuran (40CFR136, Table 1F) Tetrahydrofuran (40CFR136, Table 1F) Totuene (40CFR136, Table 1F) 1,1-Dichioro-1-fluoroethane Diesel range organic Cation-exchange capacity Chiorine - total, solid waste Free liquid Heat of combustion (BTU) Ignitability plt- soli and waste Bromide Chioride Chioride Chioride Cyanide	NPW NPW NPW NPW NPW NPW NPW NPW NPW SCM	Applied Certified	EPA 524.2 EPA 52	GCMS, P & T or Direct Injection, Capillary GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, Capillary GCMS, P & T or Direct Injection, Exhaction, GC, FID Solis, Sodium Acetate Combustion, Bomb Oxidation Finion-Through Paint Filter, Observation Bomb Calorimeter Fensixy Martens Mix with Water or Calcium Chlorides Ion Chromatography Ion Chromat	NPW11.24130 NPW11.24010 NPW11.24010 NPW11.24010 NPW11.24020 NPW11.24050 NPW11.24050 NPW11.24060 NPW11.24060 NPW11.24080 NPW11.24080 NPW11.24080 NPW11.24080 NPW16.00001 NPW16.00001 NPW16.00001 SCM02.00160 SCM02.00160 SCM02.00190 SCM02.00190 SCM02.00190 SCM02.00190 SCM02.00190 SCM03.00100 SCM03.00100 SCM03.00100 SCM03.00100 SCM03.00100 SCM03.00100 SCM03.00100 SCM03.00100 SCM03.00100 SCM03.00100 SCM03.00100 SCM03.00100 SCM03.00100 SCM03.00100 SCM03.00100 SCM03.00100 SCM03.00100 SCM03.00100 SCM03.00100	Yes No	22	11/12/2008 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2007
Chiorobenzene (40CFR136, Table 1F) Chioroform (40CFR136, Table 1F) Dichiorobenzene (1,2-) (40CFR136, Table 1F) Dichiorotenzene (1,2-) (40CFR136, Table 1F) Methylene chioride (40CFR136, Table 1F) Pentanone (4-methyl-2-) (MIBK) (40CFR136, Table 1F) Tetrahydrofuran (40CFR136, Table 1F) Toluene (40CFR136, Table 1F) Caton-exchange capacity Caton-exchange capacity Chiorine - tools, solid waste Free Ilquid Heat of combustion (BTU) Ignitability PH - soll and waste Bromide Bromide Chioride Chioride	NPW	Applied Certified	EPA 524.2 User Defined TOEQ 1005 SW-946 9091 SW-946 9095 ASTM D240 SW-946 9095	GCMS, P. & T or Direct Injection, GSMS, P. & T or Direct Injection, Capillary GCMS, P. & T or Direct Injection, Capillary GCMS, P. & T or Direct Injection, Capillary GCMS, P. & T or Direct Injection, GSMS, P. & T or Direct Injection, Exhaction, GC, FID Sols, Sodium Acetate Combustion Bomb Oxidation Flow-Through Paint Filter, Observation Bomb Calorimeter Plants, Mainter or Solicium Chlorides Inic Chromatography Ion Chromatography	NPW11.24130 NPW11.24010 NPW11.24010 NPW11.24020 NPW11.24030 NPW11.24050 NPW11.	Yes No	2	11/12/2008 7/1/2017



Fluoride	SCM	Certified	SW-846 9056	Ion Chromatography	SCM03.00460	Yes	NJ	7/1/2002
Fluoride	SCM	Certified	SW-846 9056A	Ion Chromatography	SCM03.00470	Yes	NJ	7/1/2002
Kjeldahi nitrogen - total	SCM	Certified	EPA 351.2	Digestion, Semi-automated	SCM03.00640	Yes	NJ	1/18/2017
Nitrate - nitrite	SCM	Certified	EPA 353.2	Cadmium Reduction, Automated	SCM03.00720	Yes	NJ	1/18/2017
Nitrite	SCM	Certified	SM 4500-NO2 B-11	Spectrophotometric, Manual	SCM03.00790	Yes	NJ	1/18/2017
Oli & grease - sludge-hem	SCM	Certified	SW-846 9071B	Extraction & Gravimetric	SCM03.00800	Yes	NJ	7/1/2002
Sulfate	SCM	Certified	SW-846 9056	Ion Chromatography	SCM03.01010	Yes	NJ	7/1/2002
Sulfate	SCM	Certified	SW-846 9056A	Ion Chromatography	SCM03.01020	Yes	NJ	7/1/2002
Suffides, acid sol. & Insol.	SCM	Certified	SW-846 9034	Titration	SCM03.01080	Yes	NJ	7/1/2002
Total organic carbon (TOC)	SCM	Certified	OTHER NJ Modified SW-846	Infrared Spectrometry or FID	SCM03.01120	Yes	NJ	7/1/2002
			9060A					
Total organic carbon (TOC)	SCM	Certified	Other Lloyd Kahn	Pyrolytic	SCM03.01130	Yes	NJ	7/16/2012
Metals	SCM	Certified	SW-846 3050B	Acid Digestion, Soil Sediment & Sludge	SCM05.00010	Yes	NJ	7/1/2002
Metals	SCM	Certified	SW-846 3060A	Chromium VI Digestion	SCM05.00020	Yes	NJ	7/1/2002
Metals	SCM	Certified	SW-846 1312	Synthetic PPT Leachate Procedure	SCM05.00130	Yes	NJ	7/1/2002
Metals	SCM	Certified	SW-846 1311	TCLP, Toxicity Procedure, Shaker	SCM05.00140	Yes	NJ	7/1/2002
Chromium (VI)	SCM	Certified	SW-846 7196A	Colorimetric	SCM06.00320	Yes	NJ	7/1/2002
Chromium (VI)	SCM	Certified	SW-846 7199	ion Chromatography	SCM06.00350	Yes	NJ	4/21/2006
Mercury - solid waste	SCM	Certified	SW-846 7471A	AA, Manual Cold Vapor	SCM06.00650	Yes	NJ	7/1/2002
Mercury - solid waste	SCM	Certified	SW-846 7471B	AA, Manual Cold Vapor	SCM05.00660	Yes	NJ	7/1/2002
Aluminum	SCM	Certified	SW-846 6010B	ICP	SCM07.00010	Yes	NJ	7/1/2002
Aluminum	SCM	Certified	SW-846 6010C	ICP	SCM07.00020	Yes	NJ	7/1/2002
Aluminum	SCM	Certified	SW-846 6010D	ICP	SCM07.00022	Yes	NJ	7/1/2017
Aluminum	SCM	Certified	SW-846 6020	ICP/MS	SCM07.00030	Yes	NJ	8/13/2003
Aluminum	SCM	Certified	SW-846 6020A	ICP/MS	SCM07.00040	Yes	NJ	8/13/2003
Aluminum	SCM	Certified	SW-846 6020B	ICP/MS	SCM07.00042	Yes	NJ	7/1/2017
Antimony	SCM	Certified	SW-846 6010B	ICP	SCM07.00050	Yes	NJ	7/1/2002
Antimony	SCM	Certified	SW-846 6010C	ICP	SCM07.00060	Yes	NJ	8/13/2003
Antimony	SCM	Certified	SW-846 6010D	ICP	SCM07.00062	Yes	NJ	7/1/2017
Antimony	SCM	Certified	SW-846 6020	ICP/MS	SCM07.00080	Yes	NJ	8/13/2003
Antimony	SCM	Certified	SW-846 6020A	ICP/MS	SCM07.00090	Yes	NJ	8/13/2003
Antimony	SCM	Certified	SW-846 6020B	ICP/MS	SCM07.00092	Yes	NJ	7/1/2017
Arsenic	SCM	Certified	SW-846 6010B	ICP	SCM07.00110	Yes	NJ	7/1/2002
Arsenic	SCM	Certified	SW-846 6010C	ICP	SCM07.00120	Yes	NJ	7/1/2002
Arsenic	SCM	Certified	SW-846 6010D	ICP	SCM07.00122	Yes	NJ	7/1/2017
Arsenic	SCM	Certified	SW-846 6020	ICP/MS	SCM07.00140	Yes	NJ	8/13/2003
Arsenic	SCM	Certified	SW-846 6020A	ICP/MS	SCM07.00150	Yes	NJ	8/13/2003
Arsenic	SCM	Certified	SW-846 6020B	ICP/MS	SCM07.00152	Yes	NJ	7/1/2017
Barlum	SCM	Certified	SW-846 6010B	ICP	SCM07.00160	Yes	NJ	7/1/2002
Barlum	SCM	Certified	SW-846 6010C	ICP	SCM07.00170	Yes	NJ	7/1/2002
Barlum	SCM	Certified	SW-846 6010D	ICP	SCM07.00172	Yes	NJ	7/1/2017
Barium	SCM	Certified	SW-846 6020	ICP/MS	SCM07.00190	Yes	NJ	8/13/2003
Barlum	SCM	Certified	SW-846 6020A	ICP/MS	SCM07.00200	Yes	NJ	8/13/2003
Barlum	SCM	Certified	SW-846 6020B	ICP/MS	SCM07.00202	Yes	NJ	7/1/2017
Beryllum	SCM	Certified	SW-846 6010B	ICP	SCM07.00220	Yes	NJ	7/1/2002
Beryllum	SCM	Certified	SW-846 6010C	ICP	SCM07.00230	Yes	NJ	7/1/2002
Beryllum	SCM	Certified	SW-846 6010D	ICP	SCM07.00232	Yes	NJ	7/1/2017
Beryllum	SCM	Certified	SW-846 6020	ICP/MS	SCM07.00250	Yes	NJ	8/13/2003
Beryllum	SCM	Certified	SW-846 6020A	ICP/MS	SCM07.00260	Yes	NJ	8/13/2003
Beryllum	SCM	Certified	SW-846 6020B	ICP/MS	SCM07.00262	Yes	NJ	7/1/2017
Boron	SCM	Certified	SW-846 6010B	ICP	SCM07.00270	Yes	NJ	7/1/2002
Boron	SCM	Certified	SW-846 6010C	ICP	SCM07.00270	Yes	NJ	7/1/2002
Boron	SCM	Certified	SW-846 6010D	ICP	SCM07.00282	Yes	NJ	7/1/2002
Boron	SCM	Certified	SW-846 6020A	ICP/MS	SCM07.00282	Yes	NJ	9/8/2016
Boron	SCM	Certified	SW-846 6020B	ICP/MS	SCM07.00302	Yes	NJ	7/1/2017
Cadmium	SCM	Certified	SW-846 6010B	ICP	SCM07.00320	Yes	NJ	7/1/2002
	SCM			ICP		Yes	NJ	7/1/2002
Cadmium	SCM	Certified Certified	SW-846 6010C SW-846 6010D	ICP	SCM07.00330 SCM07.00332	Yes	NJ	7/1/2002
Cadmium	SCM			ICP/MS		Yes		
Cadmium	SCM	Certified	SW-846 6020	ICP/MS	SCM07.00350	Yes	NJ	8/13/2003
Cadmium	SCM	Certified Certified	SW-846 6020A SW-846 6020B	ICP/MS ICP/MS	SCM07.00360 SCM07.00362	Yes	NJ NJ	8/13/2003 7/1/2017
Calcium	SCM	Certified	SW-846 6020B	ICP	SCM07.00362 SCM07.00380	Yes	NJ	7/1/2017
Calcium	SCM	Certified	SW-846 6010B	ICP	SCM07.00380 SCM07.00390	Yes	NJ	7/1/2002
Calcium	SCM	Certified	SW-846 6010C SW-846 6010D	ICP	SCM07.00390 SCM07.00392	Yes	NJ NJ	7/1/2002
Calcium	SCM	Certified	SW-846 6010D SW-846 6020	ICP/MS	SCM07.00392 SCM07.00400	Yes		7/1/2017
Calcium	SCM	Certified	SW-846 6020 SW-846 6020A	ICPIMS ICPIMS	SCM07.00400 SCM07.00410	Yes	NJ NJ	7/1/2004
	SCM	Certified	SW-846 6020A SW-846 6020B	ICPIMS ICPIMS	SCM07.00410 SCM07.00412			
Calcium			911 0-10 00000			Yes	NJ	7/1/2017
Chromium	SCM	Certified	SW-845 6010B	ICP	SCM07.00420	Yes	NJ	7/1/2002
Chromium	SCM	Certified	SW-846 6010C	ICP ICP	SCM07.00430	Yes	NJ	7/1/2002
Chromium	SCM	Certified	SW-846 6010D	ICP/MS	SCM07.00432	Yes	NJ	7/1/2017
Chromium	SCM	Certified	SW-846 6020	ICPIMS ICPIMS	SCM07.00450	Yes	NJ	8/13/2003
Chromium		Certified	SW-846 6020A		SCM07.00460		NJ	8/13/2003
Chromium	SCM	Certified	SW-846 6020B	ICP/MS	SCM07.00462	Yes	NJ	7/1/2017
Cobalt	SCM	Certified	SW-846 6010B	ICP	SCM07.00490	Yes	NJ	7/1/2002
Cobalt	SCM	Certified	SW-846 6010C	ICP	SCM07.00500	Yes	NJ	7/1/2002
Cobalt	SCM	Certified	SW-846 6010D	ICP	SCM07.00502	Yes	NJ	7/1/2017
Cobalt	SCM	Certified	SW-846 6020	ICP/MS	SCM07.00520	Yes	NJ	8/13/2003
Cobalt	SCM	Certified	SW-846 6020A	ICP/MS	SCM07.00530	Yes	NJ	8/13/2003
Cobalt	SCM	Certified	SW-846 6020B	ICP/MS	SCM07.00532	Yes	NJ	7/1/2017
Copper	SCM	Certified	SW-846 6010B	ICP	SCM07.00540	Yes	NJ	7/1/2002
Copper	SCM	Certified	SW-846 6010C	ICP	SCM07.00550	Yes	NJ	7/1/2002
Copper	SCM	Certified	SW-846 6010D	ICP	SCM07.00552	Yes	NJ	7/1/2017
Copper	SCM	Certified	SW-846 6020	ICP/MS	SCM07.00570	Yes	NJ	8/13/2003
Copper	SCM	Certified	SW-846 6020A	ICP/MS	SCM07.00580	Yes	NJ	8/13/2003
Copper	SCM	Certified	SW-846 6020B	ICP/MS	SCM07.00582	Yes	NJ	7/1/2017
Iron	SCM	Certified	SW-846 6010B	ICP	SCM07.00600	Yes	NJ	7/1/2002
iron	SCM	Certified	SW-846 6010C	ICP	SCM07.00610	Yes	NJ	7/1/2002
Iron	SCM	Certified	SW-846 6010D	ICP	SCM07.00612	Yes	NJ	7/1/2017
Iron	SCM	Certified	SW-846 6020	ICP/MS	SCM07.00620	Yes	NJ	7/1/2004
Iron	SCM	Certified	SW-846 6020A	ICP/MS	SCM07.00630	Yes	NJ	7/1/2004
Iron	SCM	Certified	SW-846 6020B	ICP/MS	SCM07.00630	Yes	NJ	7/1/2004
Lead	SCM	Certified	SW-846 6010B	ICP/MS	SCM07.00632	Yes	NJ	7/1/2017
Lead	SCM	Certified	SW-846 6010C	ICP	SCM07.00650	Yes	NJ	7/1/2002
	OUNT	Seruneu	G11 340 00 100	nwr.	Goods, ramor	169	140	77 172002



September   Sept									
September   Sept	Lead	SCM	Certified	SW-846 6010D	ICP	SCM07.00662	Yes	NJ	7/1/2017
September   Sept									8/13/2003
Sept		SCM		SW-846 6020A					8/13/2003
Beach				SW-846 6020B		SCM07.00692		NJ	7/1/2017
Carbon   Col.   Control   Control   Col.		SCM			ICP		Yes		2/10/2017
Company		SCM			ICP		Yes		2/10/2017
Suppress	Lithium	SCM	Certified	SW-846 6010D	ICP	SCM07.00722	Yes	NJ	7/1/2017
Supplement   SOU   Cereffee   Wind   SOU   Cereffee	Magnesium	SCM	Certified	SW-846 6010B	ICP	SCM07.00730	Yes	NJ	7/1/2002
Compression	Magnesium	SCM	Certified	SW-846 6010C	ICP	SCM07.00740	Yes	NJ	7/1/2002
Compressor   Cold   Certified   SPAME   COLD   Co	Magnesium	SCM	Certified	SW-846 6010D	ICP	SCM07.00742	Yes	NJ	7/1/2017
Compressor   COLU   Certifical   Strict   Column   Colu	Magnesium		Certified	SW-846 6020	ICP/MS	SCM07.00750	Yes	NJ	7/1/2004
Companies	Magnesium	SCM	Certified	SW-846 6020A	ICP/MS	SCM07.00760	Yes	NJ	7/1/2004
Stagement		SCM	Certified	SW-846 6020B	ICP/MS	SCM07.00762	Yes	NJ	7/1/2017
Mangemerie   DOJ   Certified   Divided 60100   DP   DOLARD 200725   Pet   NJ   77:02   Dolard 20100   Dolard									7/1/2002
Marganese									7/1/2002
Segregate   SOAL Centres   SOAL Ce	Manganese	SCM							7/1/2017
Integrated   SCAL Centred   SCAL C	Manganese								8/13/2003
Solutions   SOM	Manganese								8/13/2003
SOUTH									7/1/2017
Marchenn   GOM	Molybdenum		Certified						7/1/2002
South Continue									7/1/2002
South Control   South Centrol   SW-444 (2029)   CPAMS   CAMP (2008)   Vest   N.   71/12   Vest   N.   71									7/1/2017
Monte									7/1/2004
Notes   SOL   Certified   SW-444 60105   CP   SOLMP 70000   Ves   NJ   71/12   NOLE   SOL   Certified   SW-444 60105   CP   SOLMP 70010   Ves   NJ   71/12   NOLE   SOL   Certified   SW-444 60105   CP   SOLMP 70012   Ves   NJ   71/12   NOLE   SOL   Certified   SW-444 60105   CP   SOLMP 70012   Ves   NJ   71/12   NOLE   SOL   Certified   SW-444 60103   CP   SOLMP 70014   Ves   NJ   71/12   NOLE   SOL   Certified   SW-444 60105   CP   SOLMP 70014   Ves   NJ   71/12   NOLE   SOL   Certified   SW-444 60105   CP   SOLMP 70014   Ves   NJ   71/12   NOLE   SOL   Certified   SW-444 60105   CP   SOLMP 70014   Ves   NJ   71/12   PRESENTIN   SOL   Certified   SW-444 60105   CP   SOLMP 70004   Ves   NJ   71/12   PRESENTIN   SOL   Certified   SW-444 60105   CP   SOLMP 70004   Ves   NJ   71/12   PRESENTIN   SOL   Certified   SW-444 60105   CP   SOLMP 70004   Ves   NJ   71/12   Resentin   SOL   Certified   SW-444 60105   CP   SOLMP 70004   Ves   NJ   71/12   Resentin   SOL   Certified   SW-444 60105   CP   SOLMP 70004   Ves   NJ   71/12   Resentin   SOL   Certified   SW-444 60105   CP   SOLMP 70010   Ves   NJ   71/12   Resentin   SOL   Certified   SW-444 60105   CP   SOLMP 70010   Ves   NJ   71/12   Resentin   SOL   Certified   SW-444 60105   CP   SOLMP 70010   Ves   NJ   71/12   Resentin   SOL   Certified   SW-444 60105   CP   SOLMP 7010   Ves   NJ   71/12   Resentin   SOL   Certified   SW-444 60105   CP   SOLMP 7010   Ves   NJ   71/12   Resentin   SOL   Certified   SW-444 60105   CP   SOLMP 7010   Ves   NJ   71/12   Resentin   SOL   Certified   SW-444 60105   CP   SOLMP 7010   Ves   NJ   71/12   Resentin   SOL   Certified   SW-444 60105   CP   SOLMP 7010   Ves   NJ   71/12   Resentin   SOL   Certified   SW-444 60105   CP   SOLMP 7010   Ves   NJ   71/12   Resentin   SOL   Certified   SW-444 60105   CP   SOLMP 7010   Ves   NJ   71/12   Resentin   SOL   Certified   SW-444 60105   CP   SOLMP 7010   Ves   NJ   71/12   Resentin   SOL   Certified   SW-444 60105   CP   SOLMP 7010   Ves   NJ   71/12   Resentin   SOL   Certified   SW-4	Molybdenum							NJ	7/1/2004
Note:   SCU Certifies   SP444 S1050   CP   SCART 20010   Vet NJ   71/12   Note:   SCU Certifies   SP444 S1050   CP   SCART 20011   Vet NJ   71/12   Note:   SCU Certifies   SP444 S102   CP   SCART 20011   Vet NJ   S11/12   Note:   SCU Certifies   SP444 S102   CP   SCART 20011   Vet NJ   S11/12   Note:   SCU Certifies   SP444 S102   CP   SCART 20012   Vet NJ   S11/12   Passatum   SCU Certifies   SP444 S102   CP   SCART 20012   Vet NJ   71/12   Passatum   SCU Certifies   SP444 S102   CP   SCART 20012   Vet NJ   71/12   Passatum   SCU Certifies   SP444 S102   CP   SCART 20010   Vet NJ   71/12   Passatum   SCU Certifies   SP444 S102   CP   SCART 20010   Vet NJ   71/12   Passatum   SCU Certifies   SP444 S102   CP   SCART 20010   Vet NJ   71/12   Passatum   SCU Certifies   SP444 S102   CP   SCART 20010   Vet NJ   71/12   Passatum   SCU Certifies   SP444 S102   CP   SCART 20010   Vet NJ   71/12   Passatum   SCU Certifies   SP444 S102   CP   SCART 20010   Vet NJ   71/12   Passatum   SCU Certifies   SP444 S102   CP   SCART 20010   Vet NJ   71/12   Passatum   SCU Certifies   SP444 S102   CP   SCART 20010   Vet NJ   71/12   Passatum   SCU Certifies   SP444 S102   CP   SCART 20010   Vet NJ   71/12   Passatum   SCU Certifies   SP444 S102   CP   SCART 20010   Vet NJ   71/12   Passatum   SCU Certifies   SP444 S102   CP   SCART 20010   Vet NJ   71/12   Passatum   SCU Certifies   SP444 S102   CP   SCART 20010   Vet NJ   71/12   Passatum   SCU Certifies   SP444 S102   CP   SCART 20010   Vet NJ   71/12   Passatum   SCU Certifies   SP444 S102   CP   SCART 20010   Vet NJ   71/12   Passatum   SCU Certifies   SP444 S102   CP   SCART 20010   Vet NJ   71/12   Passatum   SCU Certifies   SP444 S102   CP   SCART 20010   Vet NJ   71/12   Passatum   SCU Certifies   SP444 S102   CP   SCART 20010   Vet NJ   71/12   Passatum   SCU Certifies   SP444 S102   CP   SCART 20010   Vet NJ   71/12   Passatum   SCU Certifies   SP444 S102   CP   SCART 20010   Vet NJ   71/12   Passatum   SCU Certifies   SP444 S102   CP   SCART 20010   Vet NJ   71/12   Pass	Moryodenum								7/1/2017
Notes									7/1/2002
Notes									7/1/2002
Note   SOM   Centred   SV-M46 80309   CPAMS   SCART 20840   Ves   NJ   P132									7/1/2017
Notes									8/13/2003
Polaszkum   SOM Centries   SIV-946 50108   OP									8/13/2003
Passaulum   SOAM   Certified   SW-948 60100   OP   SOAM7709980   Ves   NJ   77/102   Passaulum   SOAM   Certified   SW-948 60200   OP   SOAM7709980   Ves   NJ   77/102   Passaulum   SOAM   Certified   SW-948 60200   OP   MIS   SOAM7701000   Ves   NJ   77/102   Passaulum   SOAM   Certified   SW-948 60200   OP   SOAM7701000   Ves   NJ   77/102   Passaulum   SOAM   Certified   SW-948 60200   OP   SOAM7701000   Ves   NJ   77/102   OP   SOAM7701100   Ves   NJ   77/102   OP   SOAM77011	Nickel								7/1/2017
Peassalum   SOM   Certified   SW-946 50100   CP   SCAPT-00996   Yes   NJ   77/102   Peassalum   SOM   Certified   SW-946 50100   CP   SCAPT-00996   Yes   NJ   77/102   Peassalum   SOM   Certified   SW-946 50100   CP   SCAPT-01000   Yes   NJ   77/102   Yes   NJ   7	Potassium		Certified	SW-846 6010B		SCM07.00980		NJ	7/1/2002
Petasalum   SOM   Certified   SW-948 50100   CP   SCM2**00952   Ves   NJ   77/102   Petasalum   SOM   Certified   SW-948 5020   CP   Hall   SCM2**01010   Ves   NJ   77/102   Petasalum   SOM   Certified   SW-948 5020   CP   Hall   SCM2**01010   Ves   NJ   77/102   Petasalum   SOM   Certified   SW-948 5020   CP   SCM2**01010   Ves   NJ   77/102   Petasalum   SOM   Certified   SW-948 5020   CP   SCM2**01010   Ves   NJ   77/102   Petasalum   SCM   Certified   SW-948 5020   CP   SCM2**01040   Ves   NJ   77/102   Petasalum   SCM   Certified   SW-948 5020   CP   SCM2**01040   Ves   NJ   77/102   Petasalum   SCM   Certified   SW-948 5020   CP   SCM2**01040   Ves   NJ   77/102   Petasalum   SCM   Certified   SW-948 5020   CP   Mall   SCM2**01040   Ves   NJ   St 1202   Petasalum   SCM   Certified   SW-948 5020   CP   Mall   SCM2**01040   Ves   NJ   St 1202   Petasalum   SCM   Certified   SW-948 5020   CP   Mall   SCM2**01070   Ves   NJ   St 1202   Petasalum   SCM   Certified   SW-948 5020   CP   Mall   SCM2**01070   Ves   NJ   ST 1202   Petasalum   SCM   Certified   SW-948 5020   CP   SCM2**01070   Ves   NJ   ST 1202   Petasalum   SCM   Certified   SW-948 5020   CP   SCM2**01070   Ves   NJ   TY 1202   Petasalum   SCM   Certified   SW-948 5020   CP   SCM2**01070   Ves   NJ   TY 1202   Petasalum   SCM   Certified   SW-948 5020   CP   SCM2**01070   Ves   NJ   TY 1202   Petasalum   SCM   Certified   SW-948 5020   CP   Mall   SCM2**011070   Ves   NJ   TY 1202   Petasalum   SCM   Certified   SW-948 5020   CP   Mall   SCM2**011070   Ves   NJ   ST 1202   Petasalum   SCM   Certified   SW-948 5020   CP   Mall   SCM2**011070   Ves   NJ   TY 1202   Petasalum   SCM   Certified   SW-948 5020   CP   Mall   SCM2**011070   Ves   NJ   TY 1202   Petasalum   SCM   Certified   SW-948 5020   CP   Mall   SCM2**011070   Ves   NJ   TY 1202   Petasalum   SCM   Certified   SW-948 5020   CP   Mall   SCM2**011070   Ves   NJ   TY 1202   Petasalum   SCM   Certified   SW-948 5020   CP   Mall   SCM2**012070   Ves   NJ   TY 1202   Petasalum   SCM   Cer	Potassium		Certified			SCM07.00990			7/1/2002
Pedasalum   SCAL   Certified   SW-948 6020   CPAMS   SCAM7-01000   Ves   N.   77/102   Pedasalum   SCAL   Certified   SW-948 60206   CPAMS   SCAM7-01013   Ves   N.   77/102   Certified   SW-948 60200   CPAMS   SCAM7-01042   Ves   N.   81/102   CPAMS   SCAM7-01040   Ves   N.   81/102   CPAMS   SCAM	Potassium		Certified	SW-846 6010D		SCM07.00992	Yes		7/1/2017
Patasslum   SCM   Certified   SW-94-85 (2008   CP-MS   SCM07 2012   Yes   NJ   77/125   Serentum   SCM   Certified   SW-94-85 (2016   CP   SCM07 20163   Yes   NJ   77/125   Serentum   SCM   Certified   SW-94-85 (2016   CP   SCM07 20164   Yes   NJ   77/125   Serentum   SCM   Certified   SW-94-85 (2016   CP   SCM07 20164   Yes   NJ   77/125   Serentum   SCM   Certified   SW-94-85 (2016   CP   SCM07 20164   Yes   NJ   77/125   Serentum   SCM   Certified   SW-94-85 (2016   CP-MS   SCM07 20162   Yes   NJ   ST-125   Serentum   SCM   Certified   SW-94-85 (2016   CP-MS   SCM07 20172   Yes   NJ   ST-125   Serentum   SCM   Certified   SW-94-85 (2016   CP   SCM07 20172   Yes   NJ   77/125   SW-94-85 (2		SCM	Certified	SW-846 6020		SCM07.01000	Yes	NJ	7/1/2004
Seminum   SCM   Certified   SVM-448 6106   CP   SCM07-01030   Yes   NJ   77/125   Seminum   SCM   Certified   SVM-448 6100   CP   SCM07-01042   Yes   NJ   77/125   Seminum   SCM   Certified   SVM-448 6200   CP   SCM07-01042   Yes   NJ   77/125   Seminum   SCM   Certified   SVM-448 6203   CP-M46   SCM07-01052   Yes   NJ   77/125   Seminum   SCM   Certified   SVM-448 6203   CP-M46   SCM07-01057   Yes   NJ   R1327   Seminum   SCM   Certified   SVM-448 6203   CP-M46   SCM07-01057   Yes   NJ   77/125   Seminum   SCM   Certified   SVM-448 6203   CP-M46   SCM07-01057   Yes   NJ   77/125   Seminum   SCM   Certified   SVM-448 6200   CP   SCM07-01057   Yes   NJ   77/125   Size   SCM07-01057   Yes   NJ   SCM07-01057   Yes   NJ   77/125   Size   SCM07-01057   Yes   NJ   77/125   Size   SCM07-01057   Yes   NJ   77/125   Size   SCM07-01057   Yes   NJ   77/125	Potassium	SCM	Certified	SW-846 6020A	ICP/MS	SCM07.01010	Yes	NJ	7/1/2004
Seensturn   SCM   Certified   SW-944 S0108   CP   SCM07 201030   Yes   NJ   77/126   Seensturn   SCM   Certified   SW-944 S010D   CP   SCM07 201042   Yes   NJ   77/126   Seensturn   SCM   Certified   SW-944 S010D   CP   SCM07 201042   Yes   NJ   77/126   Seensturn   SCM   Certified   SW-944 S020A   CP-145   SCM07 201042   Yes   NJ   77/126   Seensturn   SCM   Certified   SW-944 S020A   CP-145   SCM07 201042   Yes   NJ   SW-944 S020A   CP-145   SCM07 201042   Yes   NJ   SW-944 S020A   CP-145   SCM07 201042   Yes   NJ   SW-944 S020A   CP-145   SW-944 S	Potassium	SCM	Certified	SW-846 6020B	ICP/MS	SCM07.01012	Yes	NJ	7/1/2017
Sentrum   SCM   Certified   SVM-448 60100   CP   SCM07 21042   Yes   NJ   77125   Sentrum   SCM   Certified   SVM-448 60204   CPAMS   SCM07 21052   Yes   NJ   81325   Sentrum   SCM   Certified   SVM-448 60204   CPAMS   SCM07 21072   Yes   NJ   81325   Sentrum   SCM   Certified   SVM-448 60206   CPAMS   SCM07 21072   Yes   NJ   77125   Siver   SCM   Certified   SVM-448 60206   CPAMS   SCM07 21110   Yes   NJ   77125   Siver   SCM   Certified   SVM-448 50206   CPAMS   SCM07 21110   Yes   NJ   77125   Siver   SCM   Certified   SVM-448 50206   CPAMS   SCM07 21110   Yes   NJ   77125   Siver   SCM   Certified   SVM-448 50206   CPAMS   SCM07 21110   Yes   NJ   77125   Siver   SCM   Certified   SVM-448 50206   CPAMS   SCM07 21110   Yes   NJ   77125   Siver   SCM   Certified   SVM-448 50206   CPAMS   SCM07 21110   Yes   NJ   77125   Siver   SCM   Certified   SVM-448 50206   CPAMS   SCM07 21110   Yes   NJ   77125   Siver   SCM   Certified   SVM-448 50206   CPAMS   SCM07 21110   Yes   NJ   77125   Solution   SCM   Certified   SVM-448 50206   CPAMS   SCM07 21110   Yes   NJ   77125   Solution   SCM   Certified   SVM-448 50206   CPAMS   SCM07 21110   Yes   NJ   77125   Solution   SCM   Certified   SVM-448 50206   CPAMS   SCM07 21110   Yes   NJ   77125   Solution   SCM   Certified   SVM-448 50200   CPAMS   SCM07 21110   Yes   NJ   77125   Solution   SCM   Certified   SVM-448 50200   CPAMS   SCM07 21120   Yes   NJ   77125   Solution   SCM   Certified   SVM-448 50200   CPAMS   SCM07 21120   Yes   NJ   77125   Solution   SCM   Certified   SVM-448 50206   CPAMS   SCM07 21120   Yes   NJ   77125   Solution   SCM   Certified   SVM-448 50206   CPAMS   SCM07 21120   Yes   NJ   77125   Solution   SCM   Certified   SVM-448 50206   CPAMS   SCM07 21120   Yes   NJ   77125   Solution   SCM   Certified   SVM-448 50206   CPAMS   SCM07 21120   Yes   NJ   77125   Solution   SCM   Certified   SVM-448 50206   CPAMS   SCM07 21120   Yes   NJ   77125   Solution   SCM   Certified   SVM-448 50206   CPAMS   SCM07 21120   Yes   NJ   77125   Solution	Selenium	SCM	Certified	SW-846 6010B	ICP	SCM07.01030	Yes	NJ	7/1/2002
Seensum   SCM   Certified   SVM-448 5010   CP   SCM07 51642   Yes   NJ   77125   Seensum   SCM   Certified   SVM-448 5020   CPAMS   SCM07 51050   Yes   NJ   81325   Seensum   SCM   Certified   SVM-448 5020   CPAMS   SCM07 51057   Yes   NJ   81325   Seensum   SCM   Certified   SVM-448 5020   CPAMS   SCM07 51057   Yes   NJ   81325   Seensum   SCM   Certified   SVM-448 5020   CPAMS   SCM07 51057   Yes   NJ   77125   Siver   SCM   Certified   SVM-448 5020   CPAMS   SCM07 51110   Yes   NJ   77125   Siver   SCM   Certified   SVM-448 5010   CPAMS   SCM07 51110   Yes   NJ   77125   Siver   SCM   Certified   SVM-448 5010   CPAMS   SCM07 51110   Yes   NJ   77125   Siver   SCM   Certified   SVM-448 5010   CPAMS   SCM07 51110   Yes   NJ   77125   Siver   SCM   Certified   SVM-448 5010   CPAMS   SCM07 51150   Yes   NJ   77125   Siver   SCM   Certified   SVM-448 5010   CPAMS   SCM07 51150   Yes   NJ   77125   Siver   SCM   Certified   SVM-448 5010   CPAMS   SCM07 51150   Yes   NJ   77125   Solution   SCM   Certified   SVM-448 5010   CPAMS   SCM07 51150   Yes   NJ   77125   Solution   SCM   Certified   SVM-448 5010   CP   SCM07 51150   Yes   NJ   77125   Solution   SCM   Certified   SVM-448 5010   CP   SCM07 51150   Yes   NJ   77125   Solution   SCM   Certified   SVM-448 5010   CP   SCM07 51150   Yes   NJ   77125   Solution   SCM   Certified   SVM-448 5020   CPAMS   SCM07 51150   Yes   NJ   77125   Solution   SCM   Certified   SVM-448 5020   CPAMS   SCM07 51150   Yes   NJ   77125   Solution   SCM   Certified   SVM-448 5020   CPAMS   SCM07 51150   Yes   NJ   77125   Solution   SCM   Certified   SVM-448 5020   CPAMS   SCM07 51150   Yes   NJ   77125   Solution   SCM   Certified   SVM-448 5020   CPAMS   SCM07 51150   Yes   NJ   77125   Solution   SCM   Certified   SVM-448 5020   CPAMS   SCM07 51150   Yes   NJ   77125   Solution   SCM   Certified   SVM-448 5020   CPAMS   SCM07 51150   Yes   NJ   77125   Solution   SCM   Certified   SVM-448 5020   CPAMS   SCM07 51150   Yes   NJ   77125   Solution   SCM   Certified   SVM-448 5020		SCM		SW-846 6010C	ICP				7/1/2002
Seenstum   SCM   Certified   SW-84 S020   CP-MS   SCM07-01950   Yes   NJ   81325   Seenstum   SCM   Certified   SW-84 S0208   CP-MS   SCM07-01970   Yes   NJ   71725   Seenstum   SCM   Certified   SW-84 S0208   CP-MS   SCM07-01972   Yes   NJ   71725   Yes   NJ   71725   Yes   NJ   71725   Yes   SCM07-01972   Yes   NJ   71725   Yes		SCM			ICP				7/1/2017
Secretum   SOM   Certified   SiV-494 S020A   CPMAS   SCM07-01070   Yes   NJ   81325   Siver   SOM   Certified   SiV-494 S010B   CPM   SCM07-01100   Yes   NJ   77122   Siver   SOM   Certified   SiV-494 S010B   CP   SCM07-01100   Yes   NJ   77122   Siver   SOM   Certified   SiV-494 S010D   CP   SCM07-01100   Yes   NJ   77122   Siver   SOM   Certified   SiV-494 S010D   CP   SCM07-01100   Yes   NJ   77122   Yes					ICP/MS				8/13/2003
Sentrum	Selenium								8/13/2003
Series	Selenium			SW-846 6020B		SCM07.01072			7/1/2017
Silver									7/1/2002
Silver		SCM			ICP		Yes		7/1/2002
Silver									7/1/2017
Silver		SCM			ICP/MS				8/13/2003
Solution		SCM		SW-846 6020A					8/13/2003
Sodium					ICP/MS				7/1/2017
Sodium	4								7/1/2002
Sodium									7/1/2002
Sodium									7/1/2017
Sodium									7/1/2004
Sodium   SCM   Certified   SW-845 S0.08   CPMS   SCM07.01202   Vez   N.J   77/125   Strontum   SCM   Certified   SW-845 S0.106   CP   SCM07.01202   Vez   N.J   77/125   Strontum   SCM   Certified   SW-845 S0.10C   CP   SCM07.01202   Vez   N.J   77/125   Strontum   SCM   Certified   SW-845 S0.10C   CP   SCM07.01202   Vez   N.J   77/125   Strontum   SCM   Certified   SW-845 S0.10C   CP   SCM07.01202   Vez   N.J   77/125   Strontum   SCM   Certified   SW-845 S0.00C   CPMS   SCM07.01202   Vez   N.J   77/125   Thailum   SCM   Certified   SW-845 S0.00C   CPMS   SCM07.01200   Vez   N.J   77/125   Thailum   SCM   Certified   SW-845 S0.10C   CP   SCM07.01200   Vez   N.J   77/125   Thailum   SCM   Certified   SW-845 S0.10C   CP   SCM07.01200   Vez   N.J   77/125   Thailum   SCM   Certified   SW-845 S0.10C   CP   SCM07.01200   Vez   N.J   77/125   Thailum   SCM   Certified   SW-845 S0.10C   CP   SCM07.01200   Vez   N.J   77/125   Thailum   SCM   Certified   SW-845 S0.10C   CP   SCM07.01200   Vez   N.J   77/125   Thailum   SCM   Certified   SW-845 S0.00C   CPMS   SCM07.01300   Vez   N.J   S1325   Thailum   SCM   Certified   SW-845 S0.00C   CPMS   SCM07.01300   Vez   N.J   S1325   Thailum   SCM   Certified   SW-845 S0.00C   CPMS   SCM07.01300   Vez   N.J   S1325   Thailum   SCM   Certified   SW-845 S0.00C   CPMS   SCM07.01300   Vez   N.J   77/125   Thailum   SCM   Certified   SW-845 S0.00C   CPMS   SCM07.01300   Vez   N.J   77/125   Thailum   SCM   Certified   SW-845 S0.00C   CPMS   SCM07.01300   Vez   N.J   77/125   Thailum   SCM   Certified   SW-845 S0.00C   CPMS   SCM07.01300   Vez   N.J   77/125   Thailum   SCM   Certified   SW-845 S0.00C   CPMS   SCM07.01300   Vez   N.J   77/125   Thailum   SCM   Certified   SW-845 S0.00C   CPMS   SCM07.01300   Vez   N.J   77/125   Thailum   SCM   Certified   SW-845 S0.00C   CPMS   SCM07.01300   Vez   N.J   77/125   Thailum   SCM   Certified   SW-845 S0.00C   CPMS   SCM07.01300   Vez   N.J   77/125   Thailum   SCM   Certified   SW-845 S0.00C   CPMS   SCM07.01300   Vez   N.J   77/125									7/1/2004
Strontium   SCM   Certified   SW-946 50106   ICP   SCM07 01210   Yes   NJ   77/120   Strontium   SCM   Certified   SW-946 50100   ICP   SCM07 01202   Yes   NJ   77/120   Strontium   SCM   Certified   SW-946 50100   ICP   SCM07 01202   Yes   NJ   77/120   Strontium   SCM   Certified   SW-946 5020A   ICPIMS   SCM07 01202   Yes   NJ   77/120   Strontium   SCM   Certified   SW-946 5020A   ICPIMS   SCM07 01240   Yes   NJ   77/120   Yes   NJ   77									7/1/2017
Strontium   SOM   Certified   SW-946 5010C   ICP   SCM07.01320   Yes   NJ   7/1/25   Strontium   SOM   Certified   SW-946 5010C   ICP   SCM07.01320   Yes   NJ   7/1/25   Strontium   SOM   Certified   SW-946 5020B   ICPIMS   SCM07.01340   Yes   NJ   7/1/35   Strontium   SOM   Certified   SW-946 5020B   ICPIMS   SCM07.01340   Yes   NJ   7/1/35   Thaillum   SOM   Certified   SW-946 5010B   ICP   SCM07.01350   Yes   NJ   7/1/35   Thaillum   SOM   Certified   SW-946 5010B   ICP   SCM07.01350   Yes   NJ   7/1/35   Thaillum   SOM   Certified   SW-946 5010D   ICP   SCM07.01350   Yes   NJ   7/1/35   Thaillum   SOM   Certified   SW-946 5010D   ICP   SCM07.01350   Yes   NJ   7/1/35   Thaillum   SOM   Certified   SW-946 5010D   ICP   SCM07.01350   Yes   NJ   7/1/35   Thaillum   SOM   Certified   SW-946 5020A   ICPIMS   SCM07.01310   Yes   NJ   ST1325   Thaillum   SOM   Certified   SW-946 5020B   ICPIMS   SCM07.01310   Yes   NJ   ST1325   Thaillum   SOM   Certified   SW-946 5020B   ICPIMS   SCM07.01310   Yes   NJ   ST1325   Thaillum   SOM   Certified   SW-946 5020B   ICPIMS   SCM07.01310   Yes   NJ   7/1/35   Thaillum   SOM   Certified   SW-946 5020B   ICPIMS   SCM07.01310   Yes   NJ   7/1/35   Thaillum   SOM   Certified   SW-946 5010D   ICP   SCM07.01380   Yes   NJ   7/1/35   Thaillum   SOM   Certified   SW-946 5010D   ICP   SCM07.01380   Yes   NJ   7/1/35   Thaillum   SOM   Certified   SW-946 5010D   ICP   SCM07.01380   Yes   NJ   7/1/35   Thaillum   SOM   Certified   SW-946 5020B   ICPIMS   SCM07.01380   Yes   NJ   7/1/35   Thaillum   SOM   Certified   SW-946 5020B   ICPIMS   SCM07.01380   Yes   NJ   7/1/35   Thaillum   SOM   Certified   SW-946 5020B   ICPIMS   SCM07.01380   Yes   NJ   7/1/35   Thaillum   SOM   Certified   SW-946 5020B   ICPIMS   SCM07.01380   Yes   NJ   7/1/35   Thaillum   SOM   Certified   SW-946 5020B   ICPIMS   SCM07.01380   Yes   NJ   7/1/35   Thaillum   SOM   Certified   SW-946 5020B   ICPIMS   SCM07.01380   Yes   NJ   7/1/35   Thaillum   SOM   Certified   SW-946 5020B   ICPIMS   SCM07.01380   Ye									
Storetum   SCM   Certified   SW-945 5010D   ICP   SCM07.01232   Ves   NJ   77/1321   Storetum   SCM   Certified   SW-945 5020B   ICPIMS   SCM07.01232   Ves   NJ   77/1321   Thaillum   SCM   Certified   SW-945 5020B   ICPIMS   SCM07.01232   Ves   NJ   77/1321   Thaillum   SCM   Certified   SW-945 5020B   ICPIMS   SCM07.01232   Ves   NJ   77/1321   Thaillum   SCM   Certified   SW-945 5010B   ICP   SCM07.01230   Ves   NJ   77/1321   Thaillum   SCM   Certified   SW-945 5010D   ICP   SCM07.01232   Ves   NJ   77/1321   Thaillum   SCM   Certified   SW-945 5010D   ICP   SCM07.01232   Ves   NJ   77/1321   Thaillum   SCM   Certified   SW-945 5010D   ICP   SCM07.01232   Ves   NJ   77/1321   Thaillum   SCM   Certified   SW-945 5010D   ICP   SCM07.01330   Ves   NJ   87/1321   Thaillum   SCM   Certified   SW-945 5020B   ICPIMS   SCM07.01330   Ves   NJ   87/1321   Thaillum   SCM   Certified   SW-945 5020B   ICPIMS   SCM07.01330   Ves   NJ   87/1321   Thaillum   SCM   Certified   SW-945 5020B   ICPIMS   SCM07.01330   Ves   NJ   77/1321   Thaillum   SCM   Certified   SW-945 5020B   ICPIMS   SCM07.01330   Ves   NJ   77/1321   Thaillum   SCM   Certified   SW-945 5010B   ICP   SCM07.01330   Ves   NJ   77/1321   Thaillum   SCM   Certified   SW-945 5010B   ICP   SCM07.01330   Ves   NJ   77/1321   Thaillum   SCM   Certified   SW-945 5010B   ICP   SCM07.01332   Ves   NJ   77/1321   Thaillum   SCM   Certified   SW-945 5010B   ICP   SCM07.01332   Ves   NJ   77/1321   Thaillum   SCM   Certified   SW-945 5010B   ICP   SCM07.01332   Ves   NJ   77/1321   Thaillum   SCM   Certified   SW-945 5010B   ICP   SCM07.01332   Ves   NJ   77/1321   Thaillum   SCM   Certified   SW-945 5010B   ICP   SCM07.01400   Ves   NJ   77/1321   Thaillum   SCM   Certified   SW-945 5010B   ICP   SCM07.01400   Ves   NJ   77/1321   Thaillum   SCM   Certified   SW-945 5010B   ICP   SCM07.01400   Ves   NJ   77/1321   Thaillum   SCM   Certified   SW-945 5010B   ICP   SCM07.01400   Ves   NJ   77/1321   Thaillum   SCM   Certified   SW-945 5010B   ICP   SCM07.01400   Ves									
Strontium   SCM   Certified   SW-946 5020A   ICPIMS   SCM07.01240   Yes   N.J.   77.1320   Yes   N.J.   77.1321									7/1/2002
Spring   School   Certified   SW-945 50208   ICP/IMS   SCh07.01242   Yes   N.J   77/326   Thaillum   SCM   Certified   SW-945 50108   ICP   SCM07.01280   Yes   N.J   77/126   Thaillum   SCM   Certified   SW-945 50100   ICP   SCM07.01290   Yes   N.J   77/126   Thaillum   SCM   Certified   SW-945 50100   ICP   SCM07.01292   Yes   N.J   77/126   Thaillum   SCM   Certified   SW-945 50100   ICP   SCM07.01292   Yes   N.J   77/126   Thaillum   SCM   Certified   SW-945 50100   ICP   SCM07.01292   Yes   N.J   87/326   Thaillum   SCM   Certified   SW-945 50100   ICP/IMS   SCM07.01310   Yes   N.J   87/326   Thaillum   SCM   Certified   SW-945 50108   ICP/IMS   SCM07.01320   Yes   N.J   87/326   Thaillum   SCM   Certified   SW-945 50108   ICP   SCM07.01320   Yes   N.J   77/126   Thaillum   SCM   Certified   SW-945 50108   ICP   SCM07.01370   Yes   N.J   77/126   Thaillum   SCM   Certified   SW-945 50100   ICP   SCM07.01380   Yes   N.J   77/126   Thaillum   SCM   Certified   SW-945 50100   ICP   SCM07.01380   Yes   N.J   77/126   Thaillum   SCM   Certified   SW-945 50100   ICP   SCM07.01380   Yes   N.J   77/126   Thaillum   SCM   Certified   SW-945 50100   ICP   SCM07.01380   Yes   N.J   77/126   Thaillum   SCM   Certified   SW-945 50100   ICP   SCM07.01380   Yes   N.J   77/126   Thaillum   SCM   Certified   SW-945 50100   ICP   SCM07.01390   Yes   N.J   77/126   Thaillum   SCM   Certified   SW-945 50100   ICP   SCM07.01400   Yes   N.J   77/126   Thaillum   SCM   Certified   SW-945 50100   ICP   SCM07.01400   Yes   N.J   77/126   Thaillum   SCM   Certified   SW-945 50100   ICP   SCM07.01400   Yes   N.J   77/126   Thaillum   SCM   Certified   SW-945 50100   ICP   SCM07.01400   Yes   N.J   77/126   Thaillum   SCM   Certified   SW-945 50100   ICP   SCM07.01400   Yes   N.J   77/126   Thaillum   SCM   Certified   SW-945 50100   ICP   SCM07.01400   Yes   N.J   77/126   Thaillum   SCM   Certified   SW-945 50100   ICP   SCM07.01530   Yes   N.J   77/126   Thaillum   SCM   Certified   SW-945 50100   ICP   SCM07.01530   Yes   N.J									7/1/2017
Thaillum									
Thaillum									7/13/2017
Thaillum									7/1/2002
Thaillum									7/1/2002
Thaillum									8/13/2003
Thaillum	***************************************								8/13/2003
Tin									7/1/2017
Tin SCM Certified SW-845 6010C ICP SCM07.01380 Yes NJ 71/120   Tin SCM Certified SW-845 6010D ICP SCM07.01380 Yes NJ 71/120   Tin SCM Certified SW-845 6020 ICPIMS SCM07.01380 Yes NJ 71/120   Tin SCM Certified SW-845 6020A ICPIMS SCM07.01390 Yes NJ 71/120   Tin SCM Certified SW-845 6020A ICPIMS SCM07.01400 Yes NJ 71/120   Tin SCM Certified SW-845 6020A ICPIMS SCM07.01400 Yes NJ 71/120   Tin SCM Certified SW-845 6020B ICPIMS SCM07.01400 Yes NJ 71/120   Titanium SCM Certified SW-845 6010B ICP SCM07.01410 Yes NJ 71/120   Titanium SCM Certified SW-845 6010B ICP SCM07.01410 Yes NJ 71/120   Titanium SCM Certified SW-845 6010D ICP SCM07.01422 Yes NJ 71/120   Titanium SCM Certified SW-845 6010D ICP SCM07.01422 Yes NJ 71/120   Titanium SCM Certified SW-845 6010D ICP SCM07.01422 Yes NJ 71/120   Titanium SCM Certified SW-845 6010D ICP SCM07.01422 Yes NJ 71/120   Titanium SCM Certified SW-845 6010D ICP SCM07.01420 Yes NJ 71/120   Titanium SCM Certified SW-845 6010D ICP SCM07.01420 Yes NJ 71/120   Titanium SCM Certified SW-845 6010B ICP SCM07.01420 Yes NJ 71/120   Titanium SCM Certified SW-845 6010B ICP SCM07.01420 Yes NJ 71/120   Titanium SCM Certified SW-845 6010B ICP SCM07.01430 Yes NJ 71/120   Titanium SCM Certified SW-845 6010B ICP SCM07.01530 Yes NJ 71/120   Titanium SCM Certified SW-845 6010D ICP SCM07.01530 Yes NJ 71/120   Titanium SCM Certified SW-845 6010D ICP SCM07.01530 Yes NJ 71/120   Titanium SCM Certified SW-845 6010D ICP SCM07.01530 Yes NJ 71/120   Titanium SCM Certified SW-845 6010D ICP SCM07.01530 Yes NJ 71/120   Titanium SCM Certified SW-845 6010B ICP SCM07.01530 Yes NJ 71/120   Titanium SCM Certified SW-845 6010B ICP SCM07.01530 Yes NJ 71/120   Titanium SCM Certified SW-845 6010B ICP SCM07.01530 Yes NJ 71/120   Titanium SCM Certified SW-845 6010B ICP SCM07.01530 Yes NJ 71/120   Titanium SCM Certified SW-845 6010B ICP SCM07.01540 Yes NJ 71/120   Titanium SCM Certified SW-845 6010B ICP SCM07.01540 Yes NJ 71/120   Titanium SCM Certified SW-845 6010B ICP SCM07.01540 Yes NJ 71/120   Titanium SCM Certified SW-8									7/1/2017
Tin									
Tin									
Tin									7/1/2017
This   SCM   Certified   SW-845 5020B   ICPIMS   SCM07.01402   Ves   NJ   77/120									
Teanium									
Titanium	Theolium	SCM	Certified	CHANGE COLOR	ine	GCM07.01402	Vac	NU	7/1/2017
Titanium		SCM	Certified	GW-646 BUTUB	ine	9CM07.01410	Vac	N.I	7/1/2007
Titanium									7/1/2007
Titanium									
Vanadium									
Vanadium									
Vanadium         SCM         Certified         SW-845 5010D         ICP         SCM07.01532         Yes         NJ         77/120           Vanadium         SCM         Certified         SW-845 6020         ICPIMS         SCM07.01550         Yes         NJ         81/302           Vanadium         SCM         Certified         SW-845 6020A         ICPIMS         SCM07.01550         Yes         NJ         81/302           Vanadium         SCM         Certified         SW-845 6020B         ICPIMS         SCM07.01562         Yes         NJ         71/120           Zinc         SCM         Certified         SW-845 6010B         ICP         SCM07.01580         Yes         NJ         71/120           Zinc         SCM         Certified         SW-845 6010D         ICP         SCM07.01580         Yes         NJ         71/120           Zinc         SCM         Certified         SW-845 6010D         ICP         SCM07.01592         Yes         NJ         71/120           Zinc         SCM         Certified         SW-845 6020A         ICPIMS         SCM07.01510         Yes         NJ         71/120           Zinc         SCM         Certified         SW-845 6020A         ICPIMS					101				7/1/2002
Vanadium         SCM         Certified         SW-845 5020         ICPIMS         9CM07.01550         Yes         NJ         8/13/20           Vanadium         SCM         Certified         SW-845 6020A         ICPIMS         SCM07.01550         Yes         NJ         8/13/20           Vanadium         SCM         Certified         SW-845 6020B         ICPIMS         SCM07.01560         Yes         NJ         7/1/20           Zinc         SCM         Certified         SW-845 6010B         ICP         SCM07.01580         Yes         NJ         7/1/20           Zinc         SCM         Certified         SW-845 6010D         ICP         SCM07.01590         Yes         NJ         7/1/20           Zinc         SCM         Certified         SW-845 6010D         ICP         SCM07.01590         Yes         NJ         7/1/20           Zinc         SCM         Certified         SW-845 6020         ICPIMS         SCM07.01510         Yes         NJ         8/13/20           Zinc         SCM         Certified         SW-845 6020A         ICPIMS         SCM07.01540         Yes         NJ         8/13/20           Zinc         SCM         Certified         SW-845 6020A         ICPIMS <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>7/1/2002</td></t<>									7/1/2002
Vanadum         SCM         Certified         SW-845 6020A         ICPIMS         SCM07.01560         Yes         NJ         81320           Vanadum         SCM         Certified         SW-845 6020B         ICPIMS         SCM07.01560         Yes         NJ         77120           Zinc         SCM         Certified         SW-845 6010B         ICP         SCM07.01590         Yes         NJ         77122           Zinc         SCM         Certified         SW-845 6010C         ICP         SCM07.01590         Yes         NJ         77122           Zinc         SCM         Certified         SW-845 6020         ICPIMS         SCM07.01510         Yes         NJ         77122           Zinc         SCM         Certified         SW-845 6020         ICPIMS         SCM07.01510         Yes         NJ         81320           Zinc         SCM         Certified         SW-845 6020A         ICPIMS         SCM07.01520         Yes         NJ         81320           Zinc         SCM         Certified         SW-845 6020A         ICPIMS         SCM07.01620         Yes         NJ         87142           Zinc         SCM         Certified         SW-845 6010B         ICP         SCM07.01640					101				7/1/2017
Vanadium   SCM   Certified   SW-945 6020B   ICPIMS   SCM07.01562   Yes   NJ   7/1/20									8/13/2003
Variation   Vari									8/13/2003
2nc   SCM   Certified   SW-845 5010C   ICP   SCM07.01590   Ves   NJ   77/120   77/		-			not mino				7/1/2017
Zinc   SCM   Certified   SW-845 6010D   ICP   SCM07.01592   Yes   NJ   77/120									7/1/2002
2006									7/1/2002
Zinc         SCM         Certified         SW-846 5020A         ICPIMS         SCM07.01620         Yes         NJ         8/13/02           Zinc         SCM         Certified         SW-948 5020B         ICPIMS         SCM07.01622         Yes         NJ         7/1/20           Zirconium         SCM         Certified         SW-946 5010B         ICP         SCM07.01640         Yes         NJ         2/10/02           Zirconium         SCM         Certified         SW-946 5010D         ICP         SCM07.01642         Yes         NJ         2/10/02           Zirconium         SCM         Certified         SW-946 5010D         ICP         SCM07.01644         Yes         NJ         7/1/20					101				7/1/2017
Zinc         SCM         Certified         SW-845 6020B         ICPIMS         SCM07.01622         Yes         NJ         7/1/20           Zinconlum         SCM         Certified         SW-845 6010B         ICP         SCM07.01640         Yes         NJ         2/10/20           Zinconlum         SCM         Certified         SW-845 6010C         ICP         SCM07.01642         Yes         NJ         2/10/20           Zinconlum         SCM         Certified         SW-845 6010D         ICP         SCM07.01642         Yes         NJ         7/1/20           Zinconlum         SCM         Certified         SW-845 6010D         ICP         SCM07.01644         Yes         NJ         7/1/20									8/13/2003
Zirconium         SCM         Certified         SW-945 6010B         ICP         SCM07.01640         Yes         NJ         2/1020           Zirconium         SCM         Certified         SW-945 6010C         ICP         SCM07.01642         Yes         NJ         2/1020           Zirconium         SCM         Oertified         SW-945 6010D         ICP         SCM07.01644         Yes         NJ         2/1/120           Zirconium         SCM         Oertified         SW-945 6010D         ICP         SCM07.01644         Yes         NJ         2/1/120	Zinc						Yes	NJ	8/13/2003
Zirconium         SCM         Certified         SW-846 5010C         ICP         SCM07.01642         Yes         NJ         2/10/20           Zirconium         SCM         Certified         SW-846 5010D         ICP         SCM07.01644         Yes         NJ         7/1/20	Zinc		Certified				Yes	NJ	7/1/2017
Zirconium         SCM         Certified         SW-945 6010D         ICP         SCM07.01644         Yes         NJ         7/1/26	Zirconium		Certified	SW-846 6010B			Yes	NJ	2/10/2017
	Zirconium	SCM				SCM07.01642	Yes	NJ	2/10/2017
Organics SCM Certified SW-846 1312 Synthetic PPT Leachate Procedure SCM08.00080 Yes NJ 7/1/20		SCM	Certified	SW-846 6010D		SCM07.01644	Yes	NJ	7/1/2017
	Organics	SCM	Certified	SW-846 1312	Synthetic PPT Leachate Procedure	SCM08.00080	Yes	NJ	7/1/2002



Organics	SCM	Certified	SW-846 3580A	Waste Dilution	SCM08.00090	Yes	NJ	7/1/2003
Semivolatile organics	SCM	Certified	SW-846 3650B	Cleanup-Acid/Base Partition	SCM08.00140	Yes	NJ	7/1/2002
Semivolatile organics	SCM	Certified	SW-846 3610B	Cleanup-Alumina	SCM08.00150	Yes	NJ	7/1/2002
Semivolatile organics	SCM	Certified	SW-846 3620B	Cleanup-Florisii	SCM08.00160	Yes	NJ	7/1/2002
Semivolatile organics	SCM	Certified	SW-846 3620C	Cleanup-Florisii	SCM08.00170	Yes	NJ	7/1/2002
Semivolatile organics	SCM	Certified	SW-846 3640A	Cleanup-Gel Permeation	SCM08.00180	Yes	NJ	7/1/2002
Semivolatile organics	SCM	Certified	SW-846 3630C	Cleanup-Silica Gel	SCM08.00190	Yes	NJ	7/1/2002
Semivolatile organics	SCM	Certified	SW-846 3660B	Cleanup-Sulfur Removal	SCM08.00200	Yes	NJ	7/1/2002
Semivolatile organics	SCM	Certified	SW-846 3665A	Cleanup-Sulfuric Acid/KMnO4	SCM08.00220	Yes	NJ	7/1/2002
Semivolatile organics	SCM	Certified	SW-846 3546	Microwave Extraction	SCM08.00240	Yes	NJ	4/20/2012
Semivolatile organics	SCM	Certified	SW-846 3611B	Petroleum Waste, Cleanup Alumina	SCM08.00250	Yes	NJ	7/1/2002
Semivolatile organics	SCM	Certified	SW-846 3540C	Soxhiet Extraction	SCM08.00280	Yes	NJ	7/1/2002
Semivolatile organics	SCM	Certified	SW-846 1311	TCLP, Toxicity Procedure, Shaker	SCM08.00320	Yes	NJ	7/1/2002
Semivolatile organics	SCM	Certified	SW-846 3550B	Ultrasonic Extraction	SCM08.00340	Yes	NJ	7/1/2002
Semivolatile organics	SCM	Certified	SW-846 3550C	Ultrasonic Extraction	SCM08.00350	Yes	NJ	7/1/2002
Volatile organics	SCM	Certified	SW-845 1311	TCLP, Toxicity Procedure, ZHE Headspace, GC or GC/MS Screen	SCM08.00390	Yes Yes	NJ	7/1/2002
Volatile organics	SCM	Certified Certified	SW-846 3810 SW-846 5035A	Methanol Extract, Closed System P & T	SCM08.00410 SCM08.00440	Yes	NJ NJ	7/1/2002 7/1/2002
Volatile organics - high conc.	SCM	Certified	SW-846 5035	Methanol Extract, Closed System P & T	SCM08.00440	Yes	NJ	7/1/2002
Volatile organics - high conc. Volatile organics - low conc.	SCM	Certified	SW-846 5035A	Closed System Purge & Trap	SCM08.00460	Yes	NJ	7/1/2002
Volatile organics - low conc.	SCM	Certified	SW-846 5035	Closed System Purge & Trap	SCM08.00470	Yes	NJ	7/1/2002
Extractable Petroleum	_							
Hydrocarbons	SCM	Certified	Other NJDEP EPH 10/08, Rev. 3	Extraction, GC, FID	SCM09.00050	Yes	NJ	8/27/2010
Petroleum Organics	SCM	Certified	Other NJ-OQA-QAM-025, Rev. 7	Extraction, GC, FID	SCM09.00060	Yes	NJ	3/19/2007
Butanol (1-)	SCM	Certified	SW-846 8015B	GC, Direct injection or P & T, FID	SCM09.00160	Yes	NJ	2/16/2011
Diesel range organic	SCM	Certified	SW-846 8015B	Extraction, GC, FID	SCM09.00180	Yes	NJ	7/1/2002
Ethyl alcohol	SCM	Certified	SW-846 8015B	GC, Direct injection or P & T, FID	SCM09.00200	Yes	NJ	7/1/2005
Gasoline range organic	SCM	Certified	SW-846 8015B	GC P&T, FID	SCM09.00230	Yes	NJ	7/1/2002
Iso-butyl alcohol	SCM	Certified	SW-846 8015B	GC, Direct injection or P & T, FID	SCM09.00240	Yes	NJ	7/1/2002
Isopropyl alcohol	SCM	Certified	SW-846 8015B	GC, Direct injection or P & T, FID	SCM09.00250	Yes	NJ	7/1/2005
Methyl alcohol (Methanol)	SCM	Certified	SW-846 8015B	GC, Direct Injection or P & T, FID	SCM09.00260	Yes	NJ	8/13/2003
Propyl Alcohol (n-)	SCM	Certified	SW-846 8015B	GC, Direct injection or P & T, FID	SCM09.00320	Yes	NJ	2/16/2011
Tert-butyl alcohol	SCM	Certified	SW-846 8015B	GC, Direct injection or P & T, FID	SCM09.00350	Yes	NJ	7/1/2002
Butanol (1-)	SCM	Certified	SW-846 8015C	GC, Direct Injection or P & T, FID	SCM09.00420	Yes	NJ	2/16/2011
Diesel range organic	SCM	Certified	SW-846 8015C	Extraction, GC, FID	SCM09.00440	Yes	NJ	7/1/2002
Ethyl alcohol	SCM	Certified	SW-846 8015C	GC, Direct injection or P & T, FID	SCM09.00470	Yes	NJ	7/1/2005
Ethylene glycol	SCM	Applied	SW-846 8015C	GC, Direct Injection, FID	SCM09.00480	No	NJ	10/7/2014
Gasoline range organic	SCM	Certified	SW-846 8015C	GC P&T, FID	SCM09.00510	Yes	NJ	7/1/2002
Iso-butyl alcohol	SCM	Certified	SW-846 8015C	GC, Direct Injection or P & T, FID	SCM09.00530	Yes	NJ	7/1/2002
Isopropyl alcohol	SCM	Certified	SW-846 8015C	GC, Direct injection or P & T, FID	SCM09.00540	Yes	NJ	7/1/2005
Methyl alcohol (Methanol)	SCM	Certified	SW-846 8015C	GC, Direct injection or P & T, FID	SCM09.00550	Yes	NJ	8/13/2003
Propyl Alcohol (n-)	SCM	Certified	SW-846 8015C	GC, Direct injection or P & T, FID	SCM09.00620	Yes	NJ	2/16/2011
Propylene glycol	SCM	Applied	SW-846 8015C	GC, Direct Injection, FID	SCM09.00630	No	NJ	10/7/2014
Tert-butyl alcohol	SCM	Certified	SW-846 8015C	GC, Direct injection or P & T, FID	SCM09.00670	Yes	NJ	7/1/2002
Butanoi (1-)	SCM	Certified	SW-846 8015D	GC, Direct Injection or P & T, FID	SCM09.00740	Yes	NJ	7/1/2017
Diesel range organic	SCM	Certified	SW-846 8015D	Extraction, GC, FID	SCM09.00770	Yes	NJ	7/1/2017
Ethyl alcohol	SCM	Certified	SW-846 8015D	GC, Direct Injection or P & T, FID	SCM09.00810	Yes	NJ	7/1/2017
Ethylene glycol	SCM	Applied	SW-846 8015D	GC, Direct Injection, FID	SCM09.00820	No	NJ	7/1/2017
Gasoline range organic	SCM	Certified	SW-846 8015D	GC P&T, FID	SCM09.00850	Yes	NJ	7/1/2017
Iso-butyl alcohol	SCM	Certified	SW-846 8015D	GC, Direct injection or P & T, FID	SCM09.00870	Yes	NJ	7/1/2017
Isopropyl alcohol	SCM	Certified Certified	SW-846 8015D	GC, Direct injection or P & T, FID	SCM09.00880	Yes	NJ	7/1/2017
Methyl alcohol (Methanol)			SW-846 8015D	GC, Direct injection or P & T, FID	SCM09.00890	Yes Yes	NJ NJ	7/1/2017
	SCM		CHAIR DATE SOLED					7/1/2017
Propyl Alcohol (n-)	SCM	Certified	SW-846 8015D	GC, Direct Injection or P & T, FID	SCM09.00960			
Propyl Alcohol (n-) Propylene glycol	SCM	Certified Applied	SW-846 8015D	GC, Direct Injection, FID	SCM09.00970	No	NJ	7/1/2017
Propyl Alcohol (n-) Propylene glycol Tert-butyl alcohol	SCM SCM SCM	Certified Applied Certified	SW-845 8015D SW-845 8015D	GC, Direct Injection, FID GC, Direct Injection or P & T, FID	SCM09.00970 SCM09.01010	No Yes	NJ NJ	7/1/2017 7/1/2017
Propyl Alcohol (n-) Propylene glycol Tert-butyl alcohol Aldrin	SCM SCM SCM	Certified Applied Certified Certified	SW-846 8015D SW-846 8015D SW-846 8081A	GC, Direct Injection, FID GC, Direct Injection or P & T, FID GC, Extraction, ECD or HECD, Capillary	SCM09.00970 SCM09.01010 SCM09.01890	No Yes Yes	NJ NJ NJ	7/1/2017 7/1/2017 7/1/2002
Propyl Alcohol (n-) Propylene glycol Tert-butyl alcohol Aldrin Alpha BHC	SCM SCM SCM SCM	Certified Applied Certified Certified Certified	SW-846 8015D SW-846 8015D SW-846 8081A SW-846 8081A	GC, Direct Injection, FID GC, Direct Injection or P & T, FID GC, Extraction, ECD or HECD, Capillary GC, Extraction, ECD or HECD, Capillary	SCM09.00970 SCM09.01010 SCM09.01890 SCM09.01900	No Yes Yes Yes	NJ NJ NJ	7/1/2017 7/1/2017 7/1/2002 7/1/2002
Propyl Alcohol (n-) Propylene glycol Tert-butyl alcohol Alpha BHC Beta BHC	SCM SCM SCM	Certified Applied Certified Certified Certified Certified	SW-846 8015D SW-845 8015D SW-846 8081A SW-845 8081A SW-845 8081A	GC, Direct Injection, FID GC, Direct Injection or P & T, FID GC, Extraction, ECD or HECD, Capillary GC, Extraction, ECD or HECD, Capillary GC, Extraction, ECD or HECD, Capillary	SCM09.01970 SCM09.01010 SCM09.01890 SCM09.01900 SCM09.01920	No Yes Yes Yes Yes	22 22 23 24 24 24	7/1/2017 7/1/2017 7/1/2002 7/1/2002 7/1/2002
Propyl Alcohol (n-) Propylene glycol Tent-butyl alcohol Aldrin Alpha BHC Beta BHC Chiordane (alpha) (cls-)	SCM SCM SCM SCM SCM SCM SCM	Certified Applied Certified Certified Certified Certified Certified	SW-845 8015D SW-845 8015D SW-845 8081A SW-845 8081A SW-945 8081A SW-845 8081A	GC, Direct injection, FID GC, Direct injection or P & T, FID GC, Extraction, ECD or HECD, Capillary	SCM09.00970 SCM09.01010 SCM09.01890 SCM09.01900 SCM09.01920 SCM09.01930	No Yes Yes Yes Yes Yes	N3 N3 N3 N3 N3 N3	7/1/2017 7/1/2017 7/1/2002 7/1/2002 7/1/2002 7/1/2002
Propyl Alcohol (n-) Propylene glycol Tert-butyl alcohol Alpha BHC Beta BHC	SCM SCM SCM SCM SCM	Certified Applied Certified Certified Certified Certified	SW-846 8015D SW-845 8015D SW-846 8081A SW-845 8081A SW-845 8081A	GC, Direct Injection, FID GC, Direct Injection or P & T, FID GC, Extraction, ECD or HECD, Capillary GC, Extraction, ECD or HECD, Capillary GC, Extraction, ECD or HECD, Capillary	SCM09.01970 SCM09.01010 SCM09.01890 SCM09.01900 SCM09.01920	No Yes Yes Yes Yes	22 22 23 24 24 24	7/1/2017 7/1/2017 7/1/2002 7/1/2002 7/1/2002
Propyl Alcohol (n-) Propylene glycol Tert-butyl alcohol Aldrin Alpha BHC Beta BHC Chlordane (alpha) (cis-) Chlordane (gamma) (trans-)	SCM SCM SCM SCM SCM SCM SCM SCM	Certified Applied Certified Certified Certified Certified Certified Certified Certified	SW-846 8015D SW-846 8015D SW-846 8081A SW-846 8081A SW-846 8081A SW-846 8081A SW-846 8081A	GC, Direct Injection, FID GC, Direct Injection or P & T, FID GC, Extraction, ECO or HECO, Capillary	SCM09.00970 SCM09.01010 SCM09.01890 SCM09.01900 SCM09.01920 SCM09.01930 SCM09.01940	No Yes Yes Yes Yes Yes Yes	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7/1/2017 7/1/2017 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002
Propyl Alcohol (n-) Propylene glycol Tet-budy alcohol Aldrin Alpha BHC Beta BHC Chlordane (alpha) (cls-) Chlordane (gamma) (trans-) Chlordane (technical)	SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified Applied Certified	SW-945 8015D SW-945 8051A SW-945 8051A SW-945 8051A SW-945 8051A SW-945 8051A SW-945 8051A	GC, Direct Injection, FID GC, Direct Injection or P & T, FID GC, Extraction, ECO or HECD, Capillary	SCM09.00970 SCM09.01010 SCM09.01890 SCM09.01900 SCM09.01920 SCM09.01930 SCM09.01940 SCM09.01950	No Yes Yes Yes Yes Yes Yes Yes	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7/1/2017 7/1/2017 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002
Frogri Alcohol (n-) Fropriene glycol Fropriene glycol Tet-budy alcohol Aldrin Alpha BHC Beta BHC Chiordane (alpha) (cls-) Chiordane (gamma) (trans-) Chiordane (technical) DDD (4,4")	SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified Applied Certified	SW-945 8015D SW-946 8015D SW-946 8015A SW-946 8081A SW-946 8081A SW-946 8081A SW-946 8081A SW-946 8081A	GC, Direct Injection, FID GC, Direct Injection or P & T, FID GC, Extraction, ECO or HECD, Capillary	SCM09.00970 SCM09.01010 SCM09.01890 SCM09.01900 SCM09.01920 SCM09.01930 SCM09.01940 SCM09.01940 SCM09.01950 SCM09.01950	No Yes Yes Yes Yes Yes Yes Yes Yes	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7/1/2017 7/1/2017 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002
Propyl Alcohol (n-) Propylene glycol Tet-budy alcohol Aldrin Alpha BHC Beta BHC Chiordane (alpha) (cis-) Chiordane (gamma) (trans-) Chiordane (gamma) (trans-) DDD (4,4'-) DDE (4,4'-)	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified Applied Certified	SW-946 8015D SW-946 8015D SW-946 8011A SW-946 8081A SW-946 8081A SW-946 8081A SW-946 8081A SW-946 8081A	GC, Direct Injecton, FID GC, Direct Injecton or P & T, FID GC, Extraction, EOD or HECD, Capillary	SCM09.00970 SCM09.01010 SCM09.01900 SCM09.01900 SCM09.01920 SCM09.01930 SCM09.01940 SCM09.01950 SCM09.02020 SCM09.02020	No Yes Yes Yes Yes Yes Yes Yes Yes Yes	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7/1/2017 7/1/2017 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002
Propyl Alcohol (n-) Propylene glycol Tet-budy alcohol Aldrin Alpha BHC Beta BHC Chlordane (alpha) (cts-) Chlordane (lepha) (cts-) Chlordane (technical) DDD (4,4'-) DDE (4,4'-) DDE (4,4'-)	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified Applied Certified	SW-945 8015D SW-946 8015D SW-946 8011A SW-946 8011A SW-946 8011A SW-946 8011A SW-946 8011A SW-946 8011A SW-946 8011A SW-946 8011A SW-946 8011A SW-946 8011A	GC, Direct Injection, FID GC, Direct Injection or P & T, FID GC, Direct Injection or P & T, FID GC, Extraction, ECO or HECD, Capillary	SCM09.00970 SCM09.01010 SCM09.01990 SCM09.01930 SCM09.01930 SCM09.01930 SCM09.01940 SCM09.01950 SCM09.02030 SCM09.02030 SCM09.02030	No Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	222222222222222222222222222222222222222	7/1/2017 7/1/2017 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002
Progyl Alcohol (n-) Propylene glycol Propylene glycol Teth-budy alcohol Aldrin Algha BHC Beta BHC Chiordane (alpha) (cls-) Chiordane (gamma) (trans-) Chiordane (technical) DDD (4,4"-) DDE (4,4"-) DDT (4,4"-) DDE ta BHC	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified Applied Certified	SW-945 8015D SW-946 8015D SW-946 8015A SW-946 8081A SW-946 8081A SW-946 8081A SW-946 8081A SW-946 8081A SW-946 8081A SW-946 8081A SW-946 8081A SW-946 8081A	GC, Direct Injection, FID GC, Direct Injection or P & T, FID GC, Extraction, ECO or HECD, Capillary	SCM09.00970 SCM09.01010 SCM09.01890 SCM09.01900 SCM09.01920 SCM09.01940 SCM09.01940 SCM09.01940 SCM09.02030 SCM09.02030 SCM09.02030 SCM09.02030 SCM09.02030 SCM09.02030	No Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7H/2017 7H/2017 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002
Propyl Alcohol (n-) Propylene glycol Tet-budy alcohol Aldrin Alpha BHC Beta BHC Chiordane (alpha) (cls-) Chiordane (gamma) (trans-) Chiordane (gemma) (trans-) DDD (4,4"-) DDT (4,4"-) DDT (4,4"-) Detta BHC Deta BHC Detal	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified Applied Certified	8W-945 8015D SW-945 8015D SW-945 8011A SW-945 8011A SW-945 8011A SW-945 8011A SW-945 8011A SW-945 8011A SW-945 8011A SW-945 8011A SW-945 8011A SW-945 8011A	GC, Direct Injection, FID GC, Direct Injection or P & T, FID GC, Extraction, EOD or HECD, Capillary GC, Extraction, EOD or HECD, Capillary GC, Extraction, EOD or HECD, Capillary GC, Extraction, ECD or HECD, Capillary	SCM09.00970 SCM09.01010 SCM09.01800 SCM09.01900 SCM09.01920 SCM09.01940 SCM09.01940 SCM09.01950 SCM09.02030 SCM09.02030 SCM09.02030 SCM09.02030 SCM09.02030 SCM09.02030	No Yes	N3 N	7H/2017 7H/2017 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002
Frogri Alcohol (n-) Fropriene glycol Fropriene glycol Tert-budy alcohol Aldrin Alpha BHC Beta BHC Chiordane (alpha) (cfs-) Chiordane (lachna) (trans-) Chiordane (technical) DDE (4.4"-) DDE (4.4"-) Detta BHC Dieldin Endosuffan I	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified Applied Certified	SW-945 8015D SW-946 8015D SW-946 8011A SW-946 8081A SW-946 8081A SW-946 8081A SW-946 8081A SW-946 8081A SW-946 8081A SW-945 8081A SW-946 8081A SW-946 8081A SW-946 8081A	GC, Direct Injection, FID GC, Direct Injection or P & T, FID GC, Direct Injection or P & T, FID GC, Extraction, ECO or HECD, Capillary	SCM09.00970 SCM09.01010 SCM09.01890 SCM09.01900 SCM09.01920 SCM09.01940 SCM09.01940 SCM09.01940 SCM09.02030 SCM09.02030 SCM09.02030 SCM09.02030 SCM09.02030 SCM09.02030	No Yes	222222222222222222222222222222222222222	7H/2017 7H/2017 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002
Propyl Alcohol (n-) Propylene glycol Tert-budy alcohol Aldrin Alpha BHC Beta BHC Chiordane (alpha) (cls-) Chiordane (gamma) (trans-) Chiordane (gamma) (trans-) Chiordane (technical) DDD (4,4"-) DDE (4,4"-) DDT (4,4"-) Detta BHC Dieldrin Endosulfan I Endosulfan II	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified Applied Certified	SIM-946 8015D SIM-946 8015D SIM-946 8011A SIM-946 8031A SIM-946 8031A	GC, Direct Injecton, FID GC, Direct Injecton or P & T, FID GC, Extraction, ECO or HECD, Capillary	GCM09.00970 GCM09.01010 GCM09.01890 GCM09.01990 GCM09.01930 GCM09.01930 GCM09.01930 GCM09.01930 GCM09.01930 GCM09.02030 GCM09.02030 GCM09.02040 GCM09.02050 GCM09.02050 GCM09.02050 GCM09.02050 GCM09.02050 GCM09.02050 GCM09.02050 GCM09.02050 GCM09.02050 GCM09.02050 GCM09.02050 GCM09.02050	No Yes	222222222222222222222222222222222222222	7H/2017 7H/2017 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002
Frogyl Alcohol (n-) Fropylene glycol Terhoutyl alcohol Aldrin Alpha BHC Beta BHC Chiordane (lapha) (cls-) Chiordane (lapha) (cls-) Chiordane (lechnical) DDD (4,4"-) DDE (4,4"-) Deta BHC Deta BHC Deta BHC Deta deta	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified Applied Certified	SW-946 8015D SW-946 8015D SW-946 8011A SW-946 8011A	GC, Direct Injection, FID GC, Direct Injection or P & T, FID GC, Extraction, ECD or HECD, Capillary	GCM09.00970 SCM09.0190 SCM09.01800 SCM09.01800 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.02000 SCM09.02000 SCM09.02000 SCM09.02000 SCM09.02000 SCM09.02000 SCM09.02000 SCM09.02000 SCM09.02000	No Yes	222222222222222222222222222222222222222	7H/2017 7H/2017 7H/2002
Progyl Alcohol (n-) Propylene glycol Tert-budy alcohol Aldrin Alpha BHC Beta BHC Chiordane (alpha) (cls-) Chiordane (gamma) (trans-) Chiordane (technical) DDE (4.4'-) DDE (4.4'-) Deta BHC Dieldrin Endosuffan II Endosuffan II Endosuffan II Endosuffan II	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified Applied Certified	SIW-945 8015D SIW-945 8015D SIW-945 8011A SIW-945 8011A	GC, Direct Injection, FID GC, Direct Injection or P & T, FID GC, Direct Injection or P & T, FID GC, Extraction, ECO or HECD, Capillary	GCM09.00970 SCM09.01910 SCM09.01890 SCM09.01890 SCM09.01920 SCM09.01920 SCM09.01920 SCM09.01920 SCM09.01920 SCM09.01920 SCM09.01920 SCM09.02020 SCM09.02020 SCM09.02020 SCM09.02020 SCM09.02020 SCM09.02040 SCM09.02050 SCM09.02060 SCM09.02060 SCM09.02060 SCM09.02060 SCM09.02060 SCM09.02060	No Yes	222222222222222222222222222222222222222	7H/2017 7H/2017 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002
Propyl Alcohol (n-) Propylene glycol Tert-budy alcohol Aldrin Aligha BHC Beta BHC Chiordane (alpha) (cls-) Chiordane (gamma) (trans-) Chiordane (genma) (trans-) Chiordane (technical) DDD (4,4"-) DDE (4,4"-) DDT (4,4"-) Deta BHC Dieldrin Endosuffan I Endosuffan I Endosuffan I Endosuffan i Endosuffan i Endosuffan i Endorin aldehyde Endrin aldehyde Endrin ketone	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified Applied Certified	8W-946 8015D SW-946 8015D SW-946 8011A SW-946 8011A	GC, Direct Injecton, FID GC, Direct Injecton or P & T, FID GC, Extraction, ECO or HECD, Capillary	GCM09.00970 SCM09.0190 SCM09.0190 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01920 SCM09.01920 SCM09.01920 SCM09.01920 SCM09.01920 SCM09.02030 SCM09.02030 SCM09.02030 SCM09.02030 SCM09.02030 SCM09.02030 SCM09.02030 SCM09.02030	No Yes	222222222222222222222222222222222222222	7H/2017 7H/2017 7H/2002
Frogri Alcohol (n-) Fropriene glycol Fropriene glycol Tert-budy alcohol Aldrin Alpha BHC Beta BHC Chiordane (alpha) (cls-) Chiordane (alpha) (cls-) Chiordane (technical) DDD (4,4"-) DDE (4,4"-) DDE (4,4"-) Deta BHC Dieldrin Endosuffan II En	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified Applied Certified	SW-946 8015D SW-946 8015D SW-946 8015A SW-946 8011A	GC, Direct Injection, FID GC, Direct Injection or P & T, FID GC, Direct Injection or P & T, FID GC, Extraction, ECO or HECD, Capillary	GCM09.00970 SCM09.01910 SCM09.01930 SCM09.01930 SCM09.01930 SCM09.01930 SCM09.01930 SCM09.01930 SCM09.01930 SCM09.01930 SCM09.0230 SCM09.0230 SCM09.0230 SCM09.0230 SCM09.02030 SCM09.02040 SCM09.02050 SCM09.02060 SCM09.02100 SCM09.02110 SCM09.02110	No Yes	222222222222222222222222222222222222222	71/12017 71/12017 71/12017 71/12017 71/12002
Progyl Alcohol (n-) Propylene glycol Propylene glycol Tert-budy alcohol Aldrin Algha BHC Beta BHC Chiordane (alpha) (cls-) Chiordane (gamma) (trans-) Chiordane (gamma) (trans-) Chiordane (technical) DDD (4,4"-) DDE (4,4"-) DDE (4,4"-) DE (4,4"-) Dieldnin Endosuffan il	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified Applied Certified	SIW-946 8015D SIW-946 8015D SIW-946 8011A SIW-946 8011A	GC, Direct Injecton, FID GC, Direct Injecton or P & T, FID GC, Extraction, EOD or HECD, Capillary	GCM09.00970 SCM09.0190 SCM09.0190 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.02000	No Yes	22 22 22 22 22 22 22 22 22 22 22 22 22	71/12017 71/12017 71/12017 71/12017 71/12017 71/12002
Frogric Alcohol (n-) Frogrich (n-) Frogrich (n-) Frogrich (n-) Aldnin Algha BHC Beta BHC Chlordane (lapha) (cls-) Chlordane (lapha) (cls-) Chlordane (lapha) (cls-) Chlordane (lapha) (ds-) DDE (4,4"-) DDE (4,4"-) DDE (4,4"-) Deta BHC Dielatin Endosuffan I Endosuffan Betone Endrin aldetyde Endrin ketone Heptachior Heptachior Heptachior Heptachior epoxide Lindane (laphama BHC)	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified Applied Applied Certified	8W-946 8015D SW-946 8015D SW-946 8015D SW-946 8011A SW-946 8081A	GC, Direct Injection, FID GC, Direct Injection or P & T, FID GC, Extraction, ECO or HECD, Capillary	GCM09.00970 SCM09.0190 SCM09.01800 SCM09.01800 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.02000 SCM09.02100 SCM09.02100 SCM09.02100 SCM09.02100 SCM09.02100	No Yes	222222222222222222222222222222222222222	71/2017 71/2017 71/2017 71/2017 71/2001 71/2002
Progyl Alcohol (n-) Propylene glycol Propylene glycol Tert-budy alcohol Aldrin Algha BHC Beta BHC Chiordane (alpha) (cls-) Chiordane (alpha) (cls-) Chiordane (alpha) (cls-) Chiordane (bethical) DDE (4.4"-) DDE (4.4"-) DDE (4.4"-) Detta BHC Dieldrin Endosuffan II Endosuffan II Endosuffan II Endosuffan iI Endosuffan iII Endosuffan iI Endosuffan BHC Methodyde Lindane (gamma BHC) Methodychior Methodychior Metro	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified Applied Applied Applied Certified	SW-945 8015D SW-945 8015D SW-945 8015A SW-945 8011A	GC, Direct Injecton, FID GC, Direct Injecton or P & T, FID GC, Extraction, ECO or HECD, Capillary	GCM09.00970 SCM09.0190 SCM09.0190 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.02000 SCM09.02100	No Yes	222222222222222222222222222222222222222	71/12017 71/12017 71/12017 71/12017 71/12017 71/12017 71/12002
Propyl Alcohol (n-) Propylene glycol Teth-budy alcohol Aldrin Alpha BHC Beta BHC Chiordane (alpha) (cls-) Chiordane (alpha) (cls-) Chiordane (gamma) (trans-) Chiordane (technical) DDD (4,4"-) DDE (4,4"-) DDE (4,4"-) DE (4,4"-) Dieta BHC Dietam Endosuffan I Endosuffan gemma ge	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified Applied Applied Certified	SW-946 8015D SW-946 8015D SW-946 8015A SW-946 8011A	GC, Direct Injecton, FID GC, Direct Injecton or P & T, FID GC, Extraction, ECD or HECD, Capillary	GCM09.00970 SCM09.0190 SCM09.0190 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01920 SCM09.01920 SCM09.01920 SCM09.01920 SCM09.02030 SCM09.02030 SCM09.02030 SCM09.02030 SCM09.02040 SCM09.02140	No Yes	222222222222222222222222222222222222222	71/2017 71/2017 71/2017 71/2017 71/2002
Progyl Alcohol (n-) Propylene glycol Tert-budy alcohol Aldrin Alpha BHC Beta BHC Chiordane (alpha) (cls-) Chiordane (alpha) (cls-) Chiordane (alpha) (cls-) Chiordane (technical) DDD (4,4"-) DDE (4,4"-) DDE (4,4"-) Deta BHC Deldrin Endosulfan II Endosulfa	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified Applied Applied Applied Certified	SW-946 8015D SW-946 8015D SW-946 8015A SW-946 8011A	GC, Direct Injection, FID GC, Direct Injection or P & T, FID GC, Direct Injection or P & T, FID GC, Extraction, ECD or HECD, Capillary	GCM09.00970 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.02000 SCM09.02100 SCM09.02200 SCM09.02200 SCM09.02200 SCM09.02200	No Yes	222222222222222222222222222222222222222	71/12017 71/12017 71/12017 71/12017 71/12002
Progyl Alcohol (n-) Propylene glycol Tert-budy alcohol Aldrin Alpha BHC Beta BHC Chiordane (alpha) (cls-) Chiordane (alpha) (cls-) Chiordane (semma) (trans-) Chiordane (technical) DDE (4.4'-) DDE (4.4'-) DDE (4.4'-) Deta BHC Dieldrin Endosuffan II Endosu	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified Applied Applied Certified	SIW-946 8015D SIW-946 8015D SIW-946 8015A SIW-946 8011A	GC, Direct Injecton, FID GC, Direct Injecton or P & T, FID GC, Extraction, EOD or HECD, Capillary	SCM09.00970 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.02000 SCM09.02100	No Yes	222222222222222222222222222222222222222	71/12017 71/12017 71/12017 71/12017 71/12017 71/12002
Frogri Alcohol (n-) Fropylene glycol Fropylene glycol Terl-budy alcohol Aldrin Algha BHC Beta BHC Chiordane (lapha) (cls-) Chiordane (lapha) Endosuffan I Endosuffan I Endosuffan II Endosuffan suffale Endrin ketone Heptachior Heptachior epoxide Lindane (gamma BHC) Methosychior Mirex Toxaphene Alachior Aldrin Alpha BHC	SCM   SCM	Certified Applied Applied Applied Applied Certified	8W-946 8015D  SW-946 8015D  SW-946 8011A  SW-946 8081A	GC, Direct Injecton, FID GC, Direct Injecton or P & T, FID GC, Extraction, ECO or HECD, Capillary	GCM09.00970 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.02000 SCM09.02100 SCM09.02200	No Yes	222222222222222222222222222222222222222	71/2017 71/2017 71/2017 71/2017 71/2001 71/2002
Progyl Alcohol (n-) Propylene glycol Propylene glycol Tert-budy alcohol Aldrin Algha BHC Beta BHC Chiordane (alpha) (cls-) Chiordane (alpha) DDE (4.4"-) DDE (4.4"-) DDE (4.4"-) Deta BHC Bedosuffan II Endosuffan BHC Bedorin aldehyde Endoffn aldehyde Endoffn aldehyde Lindane (gamma BHC) Methoxychior Methoxychior Methoxychior Mirex Toxaphene Aldchior Aldrin Algha BHC Beta BHC	SCM   SCM	Certified Applied Applied Applied Certified	SW-945 8015D SW-945 8015D SW-945 8015A SW-945 8011A	GC, Direct Injecton, FID GC, Direct Injecton or P & T, FID GC, Extraction, ECO or HECD, Capillary	SCM09.00970 SCM09.0190 SCM09.0190 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.02000 SCM09.02200 SCM09.02200 SCM09.02200	No Yes	222222222222222222222222222222222222222	7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2027 7/1/2022
Frogri Alcohol (n-) Fropriene glycol Fropriene glycol Terr-budy alcohol Aldrin Algha BHC Beta BHC Chiordane (lapha) (cls-) Chiordane (lapha) (cls-) Chiordane (lapha) (cls-) Chiordane (lapha) (cls-) DDE (4,4"-) DDE (4,4"-) DDE (4,4"-) Deta BHC Dielarin Endosuffan I Endosuffan BHC Metal Endrin Metal Endrin aldehyde Endrin aldehyde Endrin setone Heptachior Heptachior Mrex Metholychor Mrex Metholychor Mrex Aldrin Algha BHC Beta BHC Glordane (lapha) (cls-)	SCM   SCM	Certified Applied Applied Applied Applied Certified	SW-945 8015D SW-945 8015D SW-945 8015A SW-945 8011A	GC, Direct Injecton, FID GC, Direct Injecton or P & T, FID GC, Extraction, ECO or HECD, Capillary GC, Extraction, ECO or HECD, Capillar	GCM09.00970 SCM09.0190 SCM09.0190 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01920 SCM09.01920 SCM09.01920 SCM09.0200 SCM09.02000 SCM09.0200 SCM09.0200 SCM09.0200 SCM09.0200 SCM09.0200 SCM09.0200	No Yes	222222222222222222222222222222222222222	71/12017 71/12017 71/12017 71/12017 71/12002
Frogri Alcohol (n-) Fropylene glycol Fropylene glycol Tert-budy alcohol Aldrin Algha BHC Beta BHC Chiordane (alpha) (cls-) Chiordane (alpha) (cls-) Chiordane (technical) DDE (4,4"-) DDE (4,4"-) DDE (4,4"-) Deta BHC Dieldrin Endosulfan II Endosulfan Sidelyde Endrin Endrin aldehyde Endrin Berdon Heptachior Heptachior Heptachior Heptachior Aldrin Alibha BHC Beta BHC Chiordane (alpha) (cls-) Chiordane (alpha) (cls-) Chiordane (alpha) (cls-)	SCM   SCM	Certified Applied Applied Certified	SIW-945 8015D SIW-945 8015D SIW-945 8015A SIW-945 8011A SIW-945 8011B SIW-945 8011B SIW-945 8011B SIW-945 8011B	GC, Direct Injecton, FID GC, Direct Injecton or P & T, FID GC, Extraction, ECO or HECD, Capillary GC, Extraction, ECO or HECO, Capillary GC, Extraction, ECO or HECO, Capillar	SCM09.00970 SCM09.0190 SCM09.0190 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.02000 SCM09.02100 SCM09.02200 SCM09.02200 SCM09.02200 SCM09.02200 SCM09.02200	No Yes	222222222222222222222222222222222222222	7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2027 7/1/2022
Propyl Alcohol (n-) Propylene glycol Propylene glycol Tetr-budy alcohol Aldrin Algha BHC Beta BHC Chiordane (alpha) (cls-) Chiordane (alpha) (cls-) Chiordane (technical) DDE (4.4"-) DDE (4.4"-) DDE (4.4"-) Deta BHC Dieldrin Endosuffan II En	SCM   SCM	Certified Applied Applied Certified	SW-945 8015D SW-945 8015D SW-945 8015D SW-945 8011A SW-946 8011A	GC, Direct Injecton, FID GC, Direct Injecton or P & T, FID GC, Extraction, EOD or HECD, Capillary GC, Extraction, EOD or HECD, Capillar	GCM09.00970 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01920 SCM09.01920 SCM09.01920 SCM09.02030 SCM09.02030 SCM09.02030 SCM09.02030 SCM09.02030 SCM09.02040 SCM09.02040 SCM09.02040 SCM09.02040 SCM09.02040 SCM09.02040 SCM09.02040 SCM09.02160 SCM09.02300 SCM09.02300 SCM09.02300 SCM09.02300 SCM09.02300 SCM09.02300	No Yes	222222222222222222222222222222222222222	7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2017 7/1/2022 7/1/2002
Frogyl Alcohol (n-) Propylene glycol Tert-budy alcohol Aldrin Alpha BHC Beta BHC Chiordane (alpha) (cls-) Chiordane (alpha) (cls-) Chiordane (alpha) (cls-) Chiordane (alpha) (cls-) DDE (4,4'-) DDE (4,4'-) DDE (4,4'-) DET (4,4'-) Deta BHC Dieidrin Endosuffan II Endosuffan II Endosuffan idendel (alpha) Endosuffan idendel (alpha) Endrin alerhole Endrin alerhole Endrin ketone Heptachior epoxide Lindane (gamma BHC) Mirck Mirck Toxiaphene Alschior Alpha BHC Beta BHC Chiordane (alpha) (cls-)	SCM   SCM	Certified Applied Applied Certified	8W-946 8015D SW-946 8015D SW-946 8015A SW-946 8011A SW-946 8011B SW-946 8011B SW-946 8011B SW-946 8011B SW-946 8011B SW-946 8011B	GC, Direct Injection, FID GC, Direct Injection or P & T, FID GC, Extraction, EOD or HECD, Capillary GC, Extraction, ECD or HECD, Capill	GCM09.00970 SCM09.0190 SCM09.0190 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.0200 SCM09.02000 SCM09.02100 SCM09.02300	No Yes	222222222222222222222222222222222222222	71/2017 71/2017 71/2017 71/2017 71/2017 71/2002
Frogri Alcohol (n-) Fropylene glycol Terchuty alcohol Aldrin Algha BHC Beta BHC Chiordane (alpha) (cls-) Chiordane (alpha) (cls-) Chiordane (bethical) DDD (4,4"-) DDE (4,4"-) Deta BHC Bedougtan II Endosustan II	SCM   SCM	Certified Applied Applied Applied Certified	SW-945 8015D SW-945 8015D SW-945 8015A SW-945 8011A SW-945 8011B	GC, Direct Injecton, FID GC, Direct Injecton or P & T, FID GC, Extraction, EOD or HECD, Capillary GC, Extraction, EOD or HECD, Capillar	GCM09.00970 SCM09.01950 SCM09.01950 SCM09.01950 SCM09.01950 SCM09.01950 SCM09.01950 SCM09.01950 SCM09.01950 SCM09.0250	No Yes	222222222222222222222222222222222222222	71/12017 71/12017 71/12017 71/12017 71/12017 71/12017 71/12002
Frogri Alcohol (n-) Fropylene glycol Fropylene glycol Terl-budy alcohol Aldrin Algha BHC Beta BHC Chiordane (lapha) (cls-) DDE (4,4"-) DDE (4,4"-) DDE (4,4"-) Deta BHC Dieladin Endosulfan I Endosulfan II Endosulfan II Endosulfan lidehyde Endrin ketone Hegitachior Hegitachior Hegitachior Hegitachior Mirex Toxaphene Alachior Algha BHC Beta BHC Chiordane (lapha) (cls-) DDE (4,4"-) DDE (4,4"-) DDE (4,4"-)	SCM   SCM	Certified Applied Applied Applied Applied Applied Certified	8W-946 8015D  SW-946 8015D  SW-946 8011A	GC, Direct Injecton, FID GC, Direct Injecton or P & T, FID GC, Extraction, ECO or HECD, Capillary GC, Extraction, ECO or HECD, Capillar	GCM09.00970 SCM09.0190 SCM09.0190 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.0200 SCM09.02100 SCM09.02100 SCM09.02100 SCM09.02100 SCM09.02100 SCM09.02100 SCM09.02100 SCM09.02100 SCM09.02300	No Yes	222222222222222222222222222222222222222	71/12017 71/12017 71/12017 71/12017 71/12002
Frogri Alcohol (in-) Fropriene glycol Fropriene glycol Tert-budy alcohol Aldrin Alpha BHC Beta BHC Chiordane (alpha) (cls-) DDE (4,4'-) DDE (4,4'-) DDE (4,4'-) Deta BHC Dieldrin Endosulfan II Endosulfan Elone Lindane (gamma BHC) Methoxychior Mitrix Toxaphene Aldrin Aldrin Aldrin Alpha BHC Beta BHC Chiordane (alpha) (cls-) Chiordane (alpha) (cls-) Chiordane (alpha) (cls-) Chiordane (gamma) (trans-) DDI (4,4'-) DDE (4,4'-) DE (4,4'-)	SCM   SCM	Certified Applied Applied Applied Certified	SW-945 8015D SW-945 8015D SW-945 8015A SW-945 8011A SW-945 8011B	GC, Direct Injecton, FID GC, Direct Injecton or P & T, FID GC, Extraction, ECO or HECD, Capillary GC, Extraction, ECO or HECD, Capillar	SCM09.00970 SCM09.0190 SCM09.0190 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.02000 SCM09.02200 SCM09.02200 SCM09.02300 SCM09.02300 SCM09.02300 SCM09.02300 SCM09.02300 SCM09.02300	No Yes	222222222222222222222222222222222222222	71/12017 71/12017 71/12017 71/12017 71/12017 71/12017 71/12002
Frogyl Alcohol (n-) Frogylene glycol Tert-budy alcohol Aldrin Alpha BHC Beta BHC Chiordane (lapha) (cls-) Chiordane (lapha) (cls-) Chiordane (lapha) (cls-) Chiordane (lapha) (cls-) DDE (4,4'-) DDE (4,4'-) Deta BHC Dielarin Endosuffan I Endosuffan U Endosuffan I Endosuffan U Endosuffan I Endosuffan I Endosuffan I Endosuffan I Endosuffan U Endosuffan I Endosuffan U Endosuffan I Endosuffan U End	SCM   SCM	Certified Applied Applied Applied Applied Applied Certified	SW-945 8015D SW-945 8015D SW-945 8015A SW-945 8011A SW-945 8011B	GC, Direct Injecton, FID GC, Direct Injecton or P & T, FID GC, Extraction, ECO or HECD, Capillary GC, Extraction, ECO or HECD, Capillar	GCM09.00970 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01920 SCM09.01920 SCM09.01920 SCM09.01920 SCM09.01920 SCM09.02030 SCM09.02030 SCM09.02030 SCM09.02040 SCM09.02040 SCM09.02050 SCM09.02100 SCM09.02250 SCM09.02250 SCM09.02250 SCM09.02250 SCM09.02250 SCM09.02250 SCM09.02250 SCM09.02250 SCM09.02250 SCM09.02330 SCM09.02330 SCM09.02330 SCM09.02330 SCM09.02330 SCM09.02330 SCM09.02330 SCM09.02330 SCM09.02330	No Yes	222222222222222222222222222222222222222	71/12017 71/12017 71/12017 71/12017 71/12017 71/12002
Frogri Alcohol (in-) Frogriene glycol Frogriene glycol Tert-budy alcohol Aldrin Alpha BHC Beta BHC Chiordane (alpha) (cls-) Chiordane (alpha) (cls-) Chiordane (genma) (trans-) Chiordane (technical) DDE (4,4"-) DDE (4,4"-) DDE (4,4"-) Deta BHC Dieldrin Endosuffan II Endosuffan II Endosuffan iI Endosuffan BHC Endrin aldehyde Endrin Alchione (gamma BHC) Methoxychior Mirex Toxaphene Aldrin BHC Beta BHC Chiordane (alpha) (cls-)	SCM   SCM	Certified Applied Applied Certified	SW-945 8015D SW-945 8015D SW-945 8015A SW-945 8011A SW-945 8011B SW-945 8011B SW-945 8011B SW-945 8011B SW-945 8011B SW-946 8011B	GC, Direct Injecton, FID GC, Direct Injecton or P & T, FID GC, Direct Injecton or P & T, FID GC, Extraction, ECO or HECD, Capillary GC,	SCM09.00970 SCM09.0190 SCM09.0190 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.01900 SCM09.02000 SCM09.02100 SCM09.02000 SCM09.02000 SCM09.02000 SCM09.02000 SCM09.02000 SCM09.02000 SCM09.02000 SCM09.02000 SCM09.02000 SCM09.02200 SCM09.02200 SCM09.02200 SCM09.02200 SCM09.02200 SCM09.02200 SCM09.02200 SCM09.02200 SCM09.02200 SCM09.02300 SCM09.02300 SCM09.02300 SCM09.02300 SCM09.02300 SCM09.02300 SCM09.02300 SCM09.02340	No Yes	222222222222222222222222222222222222222	71/12017 71/12017 71/12017 71/12017 71/12017 71/12017 71/12017 71/12002
Frogyl Alcohol (in-) Frogylene glycol Ter-budy alcohol Addrin Alpha BHC Beta BHC Chiordane (lapha) (cls-) Chiordane (lapha) (cls-) Chiordane (lapha) (cls-) Chiordane (lapha) (cls-) DDE (4,4'-) DDE (4,4'-) Deta BHC Dieladrin Endosuffan I En	SCM   SCM	Certified Applied Applied Applied Applied Applied Certified	SW-945 8015D SW-945 8015D SW-945 8015A SW-945 8011A SW-945 8011B	GC, Direct Injecton, FID GC, Direct Injecton or P & T, FID GC, Extraction, ECO or HECD, Capillary GC, Extraction, ECO or HECD, Capillar	SCM09.00970 SCM09.01950 SCM09.01950 SCM09.01950 SCM09.01950 SCM09.01950 SCM09.01950 SCM09.01950 SCM09.0250	No Yes	222222222222222222222222222222222222222	71/12017 71/12017 71/12017 71/12017 71/12017 71/12002



Endrin	SCM	Certified	SW-846 8081B	GC, Extraction, ECD or HECD, Capillary	SCM09.02500	Yes	NJ	7/1/2002
Endrin aldehyde	SCM	Certified	SW-846 8081B	GC, Extraction, ECD or HECD, Capillary	SCM09.02510	Yes	NJ	7/1/2002
Endrin ketone	SCM	Certified	SW-846 8081B	GC, Extraction, ECD or HECD, Capillary	SCM09.02520	Yes	NJ	7/1/2002
Heptachior	SCM	Certified	SW-846 8081B	GC, Extraction, ECD or HECD, Capillary	SCM09.02540	Yes	NJ	7/1/2002
Heptachior epoxide	SCM	Certified	SW-846 8081B	GC, Extraction, ECD or HECD, Capillary	SCM09.02550	Yes	NJ	7/1/2002
Hexachlorobenzene	SCM	Certified	SW-846 8081B	GC, Extraction, ECD or HECD, Capillary	SCM09.02560	Yes	NJ	9/21/2017
Lindane (gamma BHC)	SCM	Certified	SW-846 8081B	GC, Extraction, ECD or HECD, Capillary	SCM09.02580	Yes	NJ	7/1/2002
Methoxychior	SCM	Certified	SW-846 8081B	GC, Extraction, ECD or HECD, Capillary	\$CM09.02590	Yes	NJ	7/1/2002
Mirex	SCM	Certified	SW-846 8081B	GC, Extraction, ECD or HECD, Capillary	SCM09.02620	Yes	NJ	4/3/2008
Toxaphene	SCM	Certified	SW-846 8081B	GC, Extraction, ECD or HECD, Capillary	SCM09.02660	Yes	NJ	7/1/2002
PCB 1016	SCM	Certified	SW-846 8082	GC, Extraction, ECD or HECD, Capillary	SCM09.02890	Yes	NJ	7/1/2002
PCB 1221	SCM	Certified	SW-846 8082	GC, Extraction, ECD or HECD, Capillary	SCM09.02900	Yes	NJ	7/1/2002
PCB 1232	SCM	Certified	SW-846 8082	GC, Extraction, ECD or HECD, Capillary	SCM09.02910	Yes	NJ	7/1/2002
PCB 1242	SCM	Certified	SW-846 8082	GC, Extraction, ECD or HECD, Capillary	SCM09.02920	Yes	NJ	7/1/2002
PCB 1248	SCM	Certified	SW-846 8082	GC, Extraction, ECD or HECD, Capillary	SCM09.02930	Yes	NJ	7/1/2002
PCB 1254	SCM	Certified	SW-846 8082	GC, Extraction, ECD or HECD, Capillary	SCM09.02940	Yes	NJ	7/1/2002
PCB 1260	SCM	Certified	SW-846 8082	GC, Extraction, ECD or HECD, Capillary	SCM09.02950	Yes	NJ	7/1/2002
PCB 1016	SCM	Certified	SW-846 8082A	GC, Extraction, ECD or HECD, Capillary	SCM09.03190	Yes	NJ	7/1/2002
PCB 1221	SCM	Certified	SW-846 8082A	GC, Extraction, ECD or HECD, Capillary	SCM09.03200	Yes	NJ	7/1/2002
PCB 1232	SCM	Certified	SW-846 8082A	GC, Extraction, ECD or HECD, Capillary	SCM09.03210	Yes	NJ	7/1/2002
PCB 1242	SCM	Certified	SW-846 8082A	GC, Extraction, ECD or HECD, Capillary	SCM09.03220	Yes	NJ	7/1/2002
PCB 1248	SCM	Certified	SW-846 8082A	GC, Extraction, ECD or HECD, Capillary	SCM09.03230	Yes	NJ	7/1/2002
PC8 1254	SCM	Certified	SW-846 8082A	GC, Extraction, ECD or HECD, Capillary	SCM09.03240	Yes	NJ	7/1/2002
PCB 1260	SCM	Certified	SW-846 8082A	GC, Extraction, ECD or HECD, Capillary	SCM09.03250	Yes	NJ	7/1/2002
PCB 1262	SCM	Certified	SW-846 8082A	GC, Extraction, ECD or HECD, Capillary	SCM09.03260	Yes	NJ	10/12/2011
PCB 1268	SCM	Certified	SW-846 8082A	GC, Extraction, ECD or HECD, Capillary	SCM09.03270	Yes	NJ	10/12/2011
D (2,4-)	SCM	Certified	SW-846 8151A	GC, Extraction, ECD, Capillary	SCM09.04640	Yes	NJ	7/1/2002
Dalapon	SCM	Certified	SW-846 8151A	GC, Extraction, ECD, Capillary	SCM09.04650	Yes	NJ	7/1/2002
DB (2,4-)	SCM	Certified	SW-846 8151A	GC, Extraction, ECD, Capillary	SCM09.04660	Yes	NJ	8/13/2003
Dicamba	SCM	Certified	SW-846 8151A	GC, Extraction, ECD, Capillary	SCM09.04680	Yes	NJ	7/1/2002
Dichiorprop	SCM	Certified	SW-846 8151A	GC, Extraction, ECD, Capillary	SCM09.04700	Yes	NJ	8/13/2003
Dinoseb	SCM	Certified	SW-845 8151A	GC, Extraction, ECD, Capillary	SCM09.04710	Yes	NJ	7/1/2002
MCPA	SCM	Certified	SW-846 8151A	GC, Extraction, ECD, Capillary	SCM09.04730	Yes	NJ	8/13/2003
MCPP	SCM	Certified	SW-846 8151A	GC, Extraction, ECD, Capillary	SCM09.04740	Yes	NJ	8/13/2003
Pentachiorophenol	SCM	Certified	SW-845 8151A	GC, Extraction, ECD, Capillary	SCM09.04760	Yes	NJ	8/13/2003
Picioram	SCM	Certified	SW-846 8151A	GC, Extraction, ECD, Capillary	SCM09.04770	Yes	NJ	7/1/2002
T (2,4,5-)	SCM	Certified	SW-846 8151A	GC, Extraction, ECD, Capillary	SCM09.04780	Yes	NJ	7/1/2002
TP (2,4,5-) (Silvex)	SCM	Certified	SW-846 8151A	GC, Extraction, ECD, Capillary	SCM09.04790	Yes	NJ	7/1/2002
Acetone	SCM	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	SCM10.04590	Yes	NJ	7/1/2002
Acetonitrile	SCM	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	SCM10.04600	Yes	NJ	7/1/2004
Acrolein	SCM	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	SCM10.04610	Yes	NJ	7/1/2002
Acrylonitrile	SCM	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	SCM10.04620	Yes	NJ	7/1/2002
Allyl chloride	SCM	Certified	SW-846 8260B	GCMS, P & T or Direct Injection,	SCM10.04630	Yes	NJ	7/1/2005
Benzene	SCM	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	SCM10.04660	Yes	NJ	7/1/2002
Benzyl chloride	SCM	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	SCM10.04670	Yes	NJ	7/1/2007
Bromobenzene	SCM	Certified	SW-846 8260B	GCMS, P & T or Direct Injection,	SCM10.04680	Yes	NJ	7/1/2005
Bromochioromethane	SCM	Certified	SW-846 8260B	GCMS, P & T or Direct Injection,	SCM10.04690	Yes	NJ	7/1/2005
Bromodichioromethane	SCM	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	SCM10.04700	Yes	NJ	7/1/2002
Bromoform	SCM	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	SCM10.04720	Yes	NJ	7/1/2002
Bromomethane	SCM	Certified	SW-846 8260B	GCMS, P & T or Direct Injection,	SCM10.04730	Yes	NJ	7/1/2002
Butadiene (2-chloro-1,3-)				GCMS, P & T or Direct Injection,	SCM10.04740			7/1/2007
	SCM	Certified	SW-846 8260B			Yes	NJ	
	SCM		SW-846 8260B SW-846 8260B			Yes Yes	NJ NJ	
Butanol (1-)	SCM	Certified	SW-846 8260B	GCMS, P&T, or Direct Injection, Capillary	SCM10.04750	Yes	NJ	12/2/2008
Butanol (1-)	SCM	Certified Certified	SW-846 8260B SW-846 8260B	GC/MS, P&T, or Direct Injection, Capillary GC/MS, P & T or Direct Injection,	SCM10.04750 SCM10.04770	Yes Yes	NJ NJ	12/2/2008 7/1/2002
Butanol (1-) Butylbenzene (n-)	SCM SCM SCM	Certified Certified Certified	SW-845 8250B SW-845 8250B SW-845 8250B	GCMS, P&T, or Direct injection, Capillary GCMS, P & T or Direct injection, GCMS, P & T or Direct injection,	SCM10.04750 SCM10.04770 SCM10.04810	Yes Yes Yes	NJ NJ NJ	12/2/2008 7/1/2002 7/1/2005
Butanol (1-) Butylbenzene (n-) Carbon disulfide	SCM SCM SCM	Certified Certified Certified Certified	SW-846 8250B SW-846 8250B SW-846 8250B SW-846 8250B	GCMS, P&T, or Direct Injection, Capillary GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	SCM10.04750 SCM10.04770 SCM10.04810 SCM10.04820	Yes Yes Yes Yes	NJ NJ NJ	12/2/2008 7/1/2002 7/1/2005 7/1/2002
Butanol (1-) Butylbenzene (n-) Carbon disuffide Carbon tetrachioride	SCM SCM SCM SCM	Certified Certified Certified Certified Certified	SW-845 8260B SW-845 8260B SW-845 8260B SW-845 8260B SW-846 8260B	GCMS, P&T, or Direct Injection, Capillary GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	SCM10.04750 SCM10.04770 SCM10.04810 SCM10.04820 SCM10.04830	Yes Yes Yes	NJ NJ NJ NJ	12/2/2008 7/1/2002 7/1/2005 7/1/2002 7/1/2002
Butanol (1-) Butanol (1-) Butylberizene (n-) Carbon disuffide Carbon tetrachloride Chloroberizene	SCM SCM SCM SCM SCM SCM	Certified Certified Certified Certified Certified Certified	SW-845 8260B SW-845 8260B SW-845 8260B SW-845 8260B SW-845 8260B SW-845 8260B	GCMS, P&T, or Direct injection, Capillary GCMS, P&T or Direct injection, GCMS, P&T or Direct injection, GCMS, P&T or Direct injection, GCMS, P&T or Direct injection, GCMS, P&T or Direct injection,	SCM10.04750 SCM10.04770 SCM10.04810 SCM10.04820 SCM10.04830 SCM10.04840	Yes Yes Yes Yes Yes Yes	N3 N3 N3 N3 N3 N3	12/2/2008 7/1/2002 7/1/2005 7/1/2002 7/1/2002 7/1/2002
Butanoi (1-) compressive y pressyricary controller y pressyricary controller (n-) Carbon disulfide Carbon tetrachioride Chiorobenzene Chiorobenzene Chiorobenzene	SCM SCM SCM SCM	Certified Certified Certified Certified Certified Certified Certified	SW-845 8260B SW-845 8260B SW-845 8260B SW-845 8260B SW-846 8260B	GCMS, P&T, or Direct Injection, Capillary GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	SCM10.04750 SCM10.04770 SCM10.04810 SCM10.04820 SCM10.04830 SCM10.04840 SCM10.04850	Yes Yes Yes Yes Yes	N2 N2 N2 N2 N3 N3	12/2/2008 7/1/2002 7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002
Butanoi (1-) butan	SCM SCM SCM SCM SCM SCM SCM	Certified Certified Certified Certified Certified Certified Certified Certified	SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B	GCMS, P&T, or Direct Injection, Capillary GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	SCM10.04750 SCM10.04770 SCM10.04810 SCM10.04820 SCM10.04830 SCM10.04840 SCM10.04850 SCM10.04860	Yes Yes Yes Yes Yes Yes Yes	2222222	12/2/2008 7/1/2002 7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002
Butanoi (1-) compressive y pressyricary controller y pressyricary controller (n-) Carbon disulfide Carbon tetrachioride Chiorobenzene Chiorobenzene Chiorobenzene	SCM SCM SCM SCM SCM SCM SCM SCM	Certified Certified Certified Certified Certified Certified Certified	SW-845 8250B SW-945 8250B SW-945 8250B SW-845 8250B SW-845 8250B SW-845 8250B SW-845 8250B	GCMS, P&T, or Direct Injection, Capillary GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	SCM10.04750 SCM10.04770 SCM10.04810 SCM10.04820 SCM10.04830 SCM10.04840 SCM10.04850	Yes	N2 N2 N2 N2 N3 N3	12/2/2008 7/1/2002 7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002
Butanoi (1-)  control (1-)  Carbon disuffide  Carbon tetrachioride  Chiorobettare  Chiorobettyi vinyi ether (2-)  Chiorobettyi vinyi ether (2-)	SCM SCM SCM SCM SCM SCM SCM SCM	Certified Certified Certified Certified Certified Certified Certified Certified Certified Certified	SW-946 8250B SW-946 8250B SW-946 8250B SW-945 8250B SW-945 8250B SW-946 8250B SW-946 8250B SW-946 8250B SW-946 8250B	GCMS, P&T, or Direct injection, Capillary GCMS, P & T or Direct injection,	SCM10.04750 SCM10.04770 SCM10.04810 SCM10.04830 SCM10.04830 SCM10.04830 SCM10.04850 SCM10.04850 SCM10.04860 SCM10.04870	Yes	222222222222222222222222222222222222222	12/2/2008 7/1/2002 7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002
Butanoi (1-)  Butanoi (1-)  Butanoi (1-)  Butanoi (1-)  Carbon disuffide  Carbon televalioride  Chiorotehane  Chiorotehane  Chiorotemane  Chiorotemane  Chiorotemane	SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified	SW-945 8250B SW-946 8250B SW-946 8250B SW-946 8250B SW-946 8250B SW-946 8250B SW-946 8250B SW-946 8250B SW-946 8250B SW-946 8250B	GCMS, P&T, or Direct Injection, Capillary SCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	SCM10.04750 SCM10.04770 SCM10.04810 SCM10.04820 SCM10.04830 SCM10.04840 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04870 SCM10.04880	Yes	222222222222222222222222222222222222222	12/2/2008 7/1/2002 7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002
Butanoi (1-) bassasi (2-) Butanoi (2-) Butanoi (2-) Butanoi (2-) Butanoi disuffide Carbon disuffide Chloroberachioride Chlorochtane Chlorochtane Chlorochtane Chlorochtane Chlorochtane Chloromethane Chloromethane Chloromethane Chloromethane Chlorochusene (2-)	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified	SW-946 \$250B SW-946 \$250B	GCMS, P&T or Direct Injection, Capillary GCMS, P&T or Direct Injection,	SCM10.04750 SCM10.04770 SCM10.04810 SCM10.04830 SCM10.04830 SCM10.04850 SCM10.04850 SCM10.04860 SCM10.04860 SCM10.04860 SCM10.04860 SCM10.04890 SCM10.04890	Yes	222222222222222222222222222222222222222	12/2/2008 7/1/2002 7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002
Butanoi (1-)  Carbon disuffide  Carbon disuffide  Chiorothane	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified	SW-946 8250B SW-946 8250B	GCMS, P&T, or Direct Injection, Capillary GCMS, P & T or Direct Injection,	SCM10.04750 SCM10.04770 SCM10.04870 SCM10.04830 SCM10.04830 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850	Yes	N3 N	12/2/2008 7/1/2002 7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005 7/1/2005 7/1/2005 7/1/2005
Butanoi (1-) bassasi (2-) Butanoi (2-) Butanoi (2-) Butanoi (2-) Butanoi (2-) Butanoi disutide Carbon tebrahoirde Chlorobenzene Chloroethane Chloroethane Chloromethane Chloromethane Chloromethane Chloromethane Chlorotoluene (2-) Chlorotoluene (3-) Cyclohexanoe	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified	SW-945 8250B SW-946 8250B	GCMS, P&T, or Direct injection, Capillary GCMS, P & T or Direct injection,	SCM10.04750 SCM10.04770 SCM10.04810 SCM10.04820 SCM10.04830 SCM10.04840 SCM10.04860 SCM10.04860 SCM10.04860 SCM10.04860 SCM10.04860 SCM10.04860 SCM10.04860 SCM10.04860 SCM10.04860 SCM10.04800 SCM10.04800 SCM10.04800 SCM10.04800	Yes	222222222222222222222222222222222222222	12/2/2008 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005 7/1/2005 12/2/2008
Butanoi (1-)  Butanoi (1-)  Butanoi (1-)  Carbon disuffide  Carbon disuffide  Chiorobertane  Chiorobertane  Chiorothy viryl ether (2-)  Chiorothy  Chiorothane  Chiorothune  C	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified	SW-946 \$250B SW-946 \$250B	GCMS, P&T, or Direct Injection, Capillary SCMS, P&T or Direct Injection, GCMS, P&T or Direct Injection,	SCM10.04750 SCM10.04770 SCM10.04810 SCM10.04830 SCM10.04830 SCM10.04840 SCM10.04850 SCM10.04870 SCM10.04870 SCM10.04890 SCM10.04890 SCM10.04900 SCM10.04900 SCM10.04900 SCM10.04900 SCM10.04930	Yes	222222222222222222222222222222222222222	12/2/2008 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005
Butanoi (1-)  batterio (2-)  Butanoi (2-)  Carbon disuffide  Carbon disuffide  Chiorobertzene  Chioroethane  Chioroethane  Chioroethane  Chiorothom  Cyclohexanore	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified	SW-945 8250B SW-946 8250B	GCMS, P&T, or Direct Injection, Capillary GCMS, P & T or Direct Injection,	SCM10.04750 SCM10.04770 SCM10.04810 SCM10.04820 SCM10.04820 SCM10.04840 SCM10.04850 SCM10.04850 SCM10.04870 SCM10.04870 SCM10.04870 SCM10.04870 SCM10.04800 SCM10.04800 SCM10.04900 SCM10.04900 SCM10.04930 SCM10.04940	Yes	222222222222222222222222222222222222222	12/2/2006 7/1/2005 7/1/2005 7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005 7/1/2005 7/1/2005 12/2/2008 7/1/2005 7/1/2005
Butanoi (1-)  Butanoi (1-)  Butanoi (1-)  Carbon disuffide  Carbon disuffide  Carbon disuffide  Chiorobertane  Chiorobertane  Chiorobertane  Chiorobethyi vinyi ether (2-)  Chiorobethyi vinyi ether (2-)  Chiorobethyi vinyi ether (2-)  Chiorobiuene (2-)  Chiorobiuene (2-)  Chiorobiuene (4-)  Cyclohexane  Dibromo-3-chioropropane (1,2-)  Dibromochioromethane  (1,2-)  Dibromochioromethane (1,2-) (EDB)	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified	SW-946 \$250B SW-946 \$250B	GCMS, P&T or Direct Injection, Capillary GCMS, P & T or Direct Injection,	SCM10.04750 SCM10.047750 SCM10.04810 SCM10.04830 SCM10.04840 SCM10.04840 SCM10.04840 SCM10.04850 SCM10.04870 SCM10.04870 SCM10.04870 SCM10.04890 SCM10.04900 SCM10.04900 SCM10.04930 SCM10.04930 SCM10.04930 SCM10.04930 SCM10.04930	Yes	222222222222222222222222222222222222222	12/2/2008 7/1/2005 7/1/2005 7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005
Bidano (1-)  Bidano (1-)  Bostonio (2-)  Bidylberizene (n-)  Carbon disuffide  Carbon disuffide  Chiorothane  Cyclohexano  Dibromo-chioromebane  Dibromo-chioromebane  Dibromo-chioromebane  Dibromo-chioromebane  Dibromo-chioromebane  Dibromo-chioromebane	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified	SW-945 8250B SW-946 8250B SW-946 8250B SW-946 8250B SW-946 8250B SW-945 8250B SW-945 8250B SW-945 8250B SW-945 8250B SW-946 8250B	GCMS, P&T, or Direct Injection, Capillary GCMS, P & T or Direct Injection,	SCM10.04750 SCM10.04770 SCM10.04810 SCM10.04810 SCM10.04830 SCM10.04850 SCM10.04860 SCM10.04860 SCM10.04860 SCM10.04870 SCM10.04870 SCM10.04870 SCM10.04870 SCM10.04870 SCM10.04900 SCM10.04900 SCM10.04900 SCM10.04900 SCM10.04900 SCM10.04900 SCM10.04900 SCM10.04900 SCM10.04900 SCM10.04900 SCM10.04900 SCM10.04900 SCM10.04900 SCM10.04900 SCM10.04900 SCM10.04900 SCM10.04900 SCM10.04900	Yes	222222222222222222222222222222222222222	12/2/2008 7H/2005 7H/2005 7H/2005 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2004 7H/2004 7H/2004 7H/2004 7H/2004
Butanoi (1-)  bassasi (2-)  Butanoi (2-)  Butanoi (2-)  Butanoi (2-)  Butanoi (2-)  Butanoi (2-)  Butanoi (2-)  Carbon disufide  Carbon disufide  Chioroethane  Chioroethane  Chioroethane  Chioroethane  Chioroethane  Chiorotoure (4-)  Chiorotoure (4-)  Cyclohexanoi  Cyclohexanoi  Dibromo-3-chioropropane (1,2-)  Dibromoethane (1,2-) (EDB)  Dibromoethane (1,2-) (EDB)	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified	SW-946 \$250B SW-946 \$250B	GCMS, P&T or Direct Injection, Capillary GCMS, P & T or Direct Injection,	SCM10.04750 SCM10.04770 SCM10.04810 SCM10.04820 SCM10.04830 SCM10.04840 SCM10.04840 SCM10.04860 SCM10.04860 SCM10.04860 SCM10.04860 SCM10.04860 SCM10.04860 SCM10.04890 SCM10.0490 SCM10.0490 SCM10.0490 SCM10.0490 SCM10.0490 SCM10.0490 SCM10.0490 SCM10.0490 SCM10.0490 SCM10.0490 SCM10.0490 SCM10.04960 SCM10.04960 SCM10.04960 SCM10.04960 SCM10.04960 SCM10.04960	Yes	222222222222222222222222222222222222222	12/2/2008 7/1/2002 7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2004 7/1/2004 7/1/2004 7/1/2004 7/1/2004
Bidano (1-)  Bidano (1-)  Bostomere (2-) Present Confidence (2-)  Carbon disuffide  Carbon disuffide  Chiorobertane  Chiorothane  Cyclohexane  Cyclo	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified	SW-945 8250B SW-946 8250B	GCMS, P&T, or Direct Injection, Capillary GCMS, P & T or Direct Injection,	SCM10.04750 SCM10.04770 SCM10.04810 SCM10.04810 SCM10.04830 SCM10.04830 SCM10.04830 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04870 SCM10.04890 SCM10.04890 SCM10.04900 SCM10.04900 SCM10.04900 SCM10.04900 SCM10.04900 SCM10.04900 SCM10.04900 SCM10.04900 SCM10.04900 SCM10.04900 SCM10.04900 SCM10.04900 SCM10.04900 SCM10.04900 SCM10.04900 SCM10.04900 SCM10.04900 SCM10.04900	Yes	22 22 22 22 22 22 22 22 22 22 22 22 22	12/2/2008 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2004 12/2/2008 7/1/2004 12/1/2004 12/1/2004 12/1/2004 12/1/2004 12/1/2004 12/1/2004 12/1/2004
Bidano (1-)  Bidano (1-)  Bostomer (2-)  Bidylberizene (n-)  Carbon disuffide  Carbon disuffide  Chiorochioride  (1-)  Cyliohexanone  Dibromochioromethane  Dibromochioromethane  Dibromochiorochioride  Dibromochiorochior	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified	SW-946 8250B	GCMS, P&T, or Direct Injection, Capillary GCMS, P & T or Direct Injection,	SCM10.04750 SCM10.04770 SCM10.04810 SCM10.04820 SCM10.04830 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04950 SCM10.04950 SCM10.04950 SCM10.04950 SCM10.04950 SCM10.04950 SCM10.04950 SCM10.04950 SCM10.04950 SCM10.04950 SCM10.04950 SCM10.04950 SCM10.04950 SCM10.04950 SCM10.04950 SCM10.04950 SCM10.04950	Yes	222222222222222222222222222222222222222	12/2/2008 71/1/2005 71/1/2005 71/1/2005 71/1/2002 71/1/2002 71/1/2002 71/1/2002 71/1/2002 71/1/2003 71/1/2005 71/1/2005 71/1/2005 71/1/2006
Butanoi (1-)  Butanoi (1-)  Butanoi (1-)  Butanoi (1-)  Carbon disuffide  Carbon disuffide  Carbon disuffide  Chiorobertane  Chiorobertane  Chiorothyi vinyi ether (2-)  Chiorothyi  Chiorothane  Chiorothouene (2-)  Chiorothuene (2-)  Chiorothuene (2-)  Chiorothuene (2-)  Chiorothuene (3-)  Cyclohexano  Cyclohexano  Dibromo-3-chioropropane (1,2-)  Dibromo-chioromethane  Dibromochioromethane  Dibromochioromethane  Dibromochioromethane  Dibromochioromethane  Dibromochioromethane  Dibromochioromethane  Dibromochioromethane  Dibromochioromethane  Dibromochioromethane  Dibrioroberazene (1,2-)  Dichioroberazene (1,3-)  Dichioroberazene (1,3-)	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified	SW-945 3250B SW-946 5250B	GCMS, P&T or Direct Injection, Capillary SCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	SCM10.04750 SCM10.04770 SCM10.04810 SCM10.04810 SCM10.04830 SCM10.04830 SCM10.04830 SCM10.04850 SCM10.04850 SCM10.04870 SCM10.04870 SCM10.04870 SCM10.04870 SCM10.0490	Yes	222222222222222222222222222222222222222	12/2/2008 77/1/2007 77/1/2005 77/1/2005 77/1/2002 77/1/2002 77/1/2002 77/1/2002 77/1/2002 77/1/2002 77/1/2005 12/2/2008 77/1/2004 17/1/2004 17/1/2004 17/1/2004 17/1/2004 17/1/2004 17/1/2004 17/1/2004 17/1/2004 17/1/2004 17/1/2004 17/1/2004 17/1/2004 17/1/2004 17/1/2004 17/1/2004 17/1/2004 17/1/2004
Bidano (1-)  Bidano (1-)  Bostomere (2-)  Bidylberizene (n-)  Carbon disuffide  Carbon disuffide  Chioroethane  Chioroethane  Chioroethane  Chiorotoluene (2-)  Chiorotoluene (2-)  Chiorotoluene (2-)  Chiorotoluene (3-)  Chiorotoluene (4-)  Cyclohexanone  Dibromoethane  Dibromoethane (1,2-)  Dibromoethane (1,2-)  Dibromoethane (1,2-)  Dichioroberizene (1,2-)  Dichioroberizene (1,3-)  Dichioroberizene (1,3-)  Dichioroberizene (1,3-)  Dichioroberizene (1,3-)  Dichioroberizene (1,4-)  Dichioroberizene (1,4-)  Dichioroberizene (1,4-)  Dichioroberizene (1,4-)  Dichioroberizene (1,4-)  Dichioroberizene (1,4-)	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified	SW-945 8250B SW-946 8250B	GCMS, P&T, or Direct Injection, Capillary GCMS, P & T or Direct Injection,	SCM10.04750 SCM10.04770 SCM10.04810 SCM10.04810 SCM10.04830 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04910 SCM10.0490	Yes	222222222222222222222222222222222222222	12/2/2008 71/1/2007 71/1/2007 71/1/2007 71/1/2002 71/1/2002 71/1/2002 71/1/2002 71/1/2002 71/1/2002 71/1/2003 71/1/2005 71/1/2005 71/1/2005 71/1/2005 71/1/2007
Butano (1-)  Butano (1-)  Butano (1-)  Butano (1-)  Garbon disuffide  Carbon disuffide  Carbon disuffide  Carbon disuffide  Chicroethane  Dibromo-3-chicropropane (1,2-)  Dibromo-chicromethane  Dibromo-chicromethane  Dibromo-chicromethane  Dichicroethane (1,2-)	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified	SW-946 \$250B	GCMS, P&T or Direct Injection, Capillary GCMS, P&T or Direct Injection,	SCM10.04750 SCM10.04770 SCM10.04810 SCM10.04810 SCM10.04830 SCM10.04830 SCM10.04830 SCM10.04830 SCM10.04890 SCM10.04890 SCM10.04890 SCM10.04900 SCM10.	Yes	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	12/2/008 7/1/2002 7/1/2005 7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005 7/1/2005 12/2/2008 12/2/2008 12/1/2005 7/1/2004 7/1/2002
Butanoi (1-)  Sation (1-)  Sation of (2-)  Sation of (2-)  Sation of (2-)  Sation of (2-)  Carbon disuffide  Carbon rebachioride  Chicroethane  Cyclohexanone  Dibromo-2-hicropropane  Dibromo-2-hicropropane  Dibromo-2-butene (1,2-)  Dibromoethane  Dichicroethane  Chicroethane  Chicr	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified	SW-945 8250B SW-946 8250B	GCMS, P&T, or Direct Injection, Capillary SCMS, P&T or Direct Injection, GCMS, P&T or Direct Injection,	SCM10.04750 SCM10.04770 SCM10.04810 SCM10.04810 SCM10.04830 SCM10.04830 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.0480 SCM10.04850 SCM10.05500 SCM10.05500 SCM10.05500	Yes	222222222222222222222222222222222222222	12/2/2008 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2003 7/1/2004 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002
Butano (1-)  Butano (1-)  Butano (1-)  Carbon disuffide  Carbon disuffide  Chiorochane  Chiorochane  Chiorochane  Chiorochane  Chiorothane  Chiorothane  Chiorothane  Chiorothane  Chiorothane  Chiorothouene (2-)  Chiorothouene (4-)  Cyciohexanone  Dibromo-chioromethane  Dibromo-chioromethane  Dibromo-chioromethane  Dibromo-chioromethane  Dibromo-chiorochane (1,2-)  Dichiorotherizene (1,2-)  Dichiorotherizene (1,3-)  Dichiorotherizene (1,3-)  Dichiorotherizene (1,3-)  Dichiorotherizene (1,1-)  Dichiorothane (1,1-)  Dichiorochane (1,1-)  Dichiorochane (1,1-)  Dichiorochane (1,1-)	SCM   SCM	Certified	SW-946 8250B	GCMS, P&T, or Direct Injection, Capillary GCMS, P & T or Direct Injection,	SCM10.04750 SCM10.047750 SCM10.04770 SCM10.04810 SCM10.04830 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04950 SCM10.04950 SCM10.04950 SCM10.04950 SCM10.04950 SCM10.04950 SCM10.04950 SCM10.04950 SCM10.04950 SCM10.04950 SCM10.04950 SCM10.04950 SCM10.04950 SCM10.04950 SCM10.05000 SCM10.05000 SCM10.05000 SCM10.05000 SCM10.05000 SCM10.05000 SCM10.05000 SCM10.05000 SCM10.05000 SCM10.05000 SCM10.05000 SCM10.05000 SCM10.05000 SCM10.05000 SCM10.05000 SCM10.05000	Yes	222222222222222222222222222222222222222	12/2/2008 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2002
Butanol (1-)  Butanol (1-)  Butanol (1-)  Butanol (1-)  Carbon disuffide  Carbon disuffide  Carbon disuffide  Chiloroberane  Cyclohexane  Cyclohexane  Dibromo-3-chiloropropane (1,2-)  Dibromo-3-chiloropropane  Dibromo-biloromethane  Dibromo-biloromethane  Dichiloroberane (1,2-)	SCM   SCM	Certified	SW-945 8250B SW-946 8250B	GOMS, P&T or Direct Injection, Capillary SCMS, P&T or Direct Injection, GCMS, P&T or Direct Injection,	SCM10.04750 SCM10.04770 SCM10.04770 SCM10.04810 SCM10.04830 SCM10.04830 SCM10.04830 SCM10.04830 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04860 SCM10.04870 SCM10.05010	Yes	222222222222222222222222222222222222222	12/2/2008 7/1/2002
Butanol (1-)  Sation (1-)  Sation of (2-)  Sation of (2-)  Sation of Sation of Sation  Chloroberszene  Cyclohexano  Dibromo-S-chloropropane (1,2-)  Dibromo-Chloromerbane  Dibromo-Sation  Dibromo-Sation  Dibromo-Sation  Dibromo-Sation  Dichloroberszene (1,2-)  Dichlorobethene (1,2-)	SCM   SCM	Certified	SW-946 8250B	GCMS, P&T or Direct Injection, Capillary GCMS, P & T or Direct Injection,	SCM10.04750 SCM10.04750 SCM10.04770 SCM10.04810 SCM10.04800 SCM10.05000 SCM10.05000 SCM10.05000 SCM10.05000	Yes	222222222222222222222222222222222222222	12/2/2008 7/1/2007 7/1/2007 7/1/2007 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2004 7/1/2002
Butano (1-)  Carbon disuffide  Carbon disuffide  Carbon disuffide  Chioroethane  Chioroethane  Chioroethane  Chioroethane  Chiorotoluene (2-)  Chiorotoluene (2-)  Chiorotoluene (2-)  Chiorotoluene (2-)  Chiorotoluene (2-)  Dibromo-3-chioropropane (1,2-)  Dibromo-3-chioropropane (1,2-)  Dibromo-bioromethane  Dibromo-bioromethane  Dibromo-bioromethane  Dibromo-bioromethane  Dibromo-bioromethane  Dichiorobetazene (1,2-)  Dichiorotelazene (1,2-)	SCM   SCM	Certified	SW-945 3250B SW-946 5250B	GCMS, P&T or Direct Injection, Capillary GCMS, P & T or Direct Injection,	SCM10.04750 SCM10.04770 SCM10.04870 SCM10.04810 SCM10.04830 SCM10.04830 SCM10.04830 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04800 SCM10.05000 SCM10.05000 SCM10.05000 SCM10.05000 SCM10.05000 SCM10.05000 SCM10.05000 SCM10.05000 SCM10.05000	Yes	222222222222222222222222222222222222222	12/2/008 7/1/2002
Butanol (1-)  Butanol (1-)  Butanol (1-)  Carbon disuffide  Carbon disuffide  Carbon disuffide  Chiorocethane  Cyclohexanone  Dibromo-2-nchioropropane  Dibromo-2-nchioropropane  Dibromo-2-butane  Dibromo-	SCM   SCM	Certified	SW-945 8250B SW-946 8250B	GOMS, P&T or Direct Injection, Capillary GCMS, P & T or Direct Injection,	SCM10.04750 SCM10.04750 SCM10.04710 SCM10.04810 SCM10.04810 SCM10.04830 SCM10.04830 SCM10.04830 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04800 SCM10.05000 SCM10.05000 SCM10.05000 SCM10.05000	Yes	222222222222222222222222222222222222222	12/2/2008 7/1/2005 7/1/2005 7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2003 7/1/2005 12/2/2008 7/1/2005 12/2/2008 7/1/2005 12/2/2008 7/1/2005 12/2/2008 7/1/2002
Butanol (1-)  Carbon disuffide  Carbon disuffide  Carbon disuffide  Chioroethane  Chioroethane  Chioroethane  Chioroethane  Chioroethane  Chiorotoume (2-)  Chiorotoume (2-)  Chiorotoume (2-)  Chiorotoume (2-)  Dibromo-3-chioropropane (1,2-)  Dibromo-3-chioropropane (1,2-)  Dibromo-chioromethane  Dibromo-chioromethane  Dibromo-chioromethane  Dibromo-chioromethane  Dibromo-chioromethane  Dibromo-chioromethane  Dichiorotoumethane  Dichiorotoumethane  Dichiorotoumethane  Dichiorotoumethane  Dichiorothane (1,2-)  Dichiorotropropane (1,2-)  Dichioropropane (1,2-)	SCM   SCM	Certified	SW-946 8250B	GCMS, P&T or Direct Injection, Capillary GCMS, P&T or Direct Injection,	SCM10.04750 SCM10.04750 SCM10.04770 SCM10.04810 SCM10.04830 SCM10.04840 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04800 SCM10.05000	Yes	222222222222222222222222222222222222222	12/2/2008 71/2/2007 71/2/2/2007 71/2/2/2007 71/2/2/2007 71/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2
Butanol (1-)  Butanol (1-)  Butanol (1-)  Butanol (1-)  Carbon disuffide  Carbon disuffide  Carbon disuffide  Chilorobethane  Cyclohexanone  Dibromo-3-chiloropropane (1,2-)  Dibromo-3-chiloropropane (1,2-)  Dibromo-3-chiloropropane  Dibromo-3-chiloropropane  Dibromo-3-chiloropropane  Dibromo-3-chiloropropane  Dibromo-4-butane  (1,2-)  Dichilorobethane  (1,3-)  Dichilorobethane  (1,1-)  Dichilorobethane  (1,2-)  Dichilorobethane  (1,2-)  Dichilorobethane  (1,2-)  Dichilorobethane  (1,2-)  Dichiloropropane  (1,2-)  Dichiloropropane  (1,2-)  Dichiloropropane  (1,3-)  Dichiloropropane  (1,3-)  Dichiloropropane  (1,3-)  Dichiloropropane  (1,3-)  Dichiloropropane  (1,3-)  Dichiloropropane  (1,3-)	SCM   SCM	Certified	SW-945 8250B SW-946 8250B	GOMS, P&T or Direct Injection, Capillary SCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	SCM10.04750 SCM10.047750 SCM10.04770 SCM10.04810 SCM10.04810 SCM10.04830 SCM10.04830 SCM10.04830 SCM10.04850 SCM10.05050	Yes	222222222222222222222222222222222222222	12/2/2008 7/1/2002
Butanol (1-)  Substance (2-) processor  Substance (3-) processor  Substance (3-) processor  Carbon disuffide  Carbon disuffide  Chiorobenane  Chiorotehane  Chiorotehane  Chiorotehane  Chiorotehane  Chiorotoluene (2-)  Chiorotoluene (2-)  Chiorotoluene (3-)  Cyciohexane  Cyciohexane  Dibromo-shonopropane (1,2-)  Dibromochioromethane  Dibromo-chioropropane (1,2-)  Dichiorotoluene (3-)  Dichiorotoluene (3-)  Dichiorotoluene (1,3-)  Dichiorotehane (1,3-)  Dichioropropane (1,2-)  Dichioropropane (1,2-)  Dichioropropane (1,2-)  Dichioropropane (1,3-)  Dichioropropane (1,3-)  Dichioropropane (1,3-)	SCM   SCM	Certified	SW-946 8250B	GCMS, P&T or Direct Injection, Capillary GCMS, P & T or Direct Injection,	SCM10.04750 SCM10.04750 SCM10.04770 SCM10.04810 SCM10.04800 SCM10.04900	Yes	222222222222222222222222222222222222222	12/2/2008 71/1/2007 71/1/2
Butanol (1-)  Butanol (1-)  Butanol (1-)  Butanol (1-)  Butanol (1-)  Carbon disuffide  Carbon disuffide  Carbon disuffide  Chilorobethane  Cyclohexanone  Dibromo-3-chiloropropane (1,2-)  Dibromo-3-chiloropropane (1,2-)  Dibromo-chiloromethane  Dibromochiloromethane  Dibromochiloromethane  Chilorobethane (1,2-)  Chilorobethane (1,2-)  Dichilorobethane (1,2-)  Dichilorobethane (1,2-)  Dichilorobethane (1,2-)  Dichilorobethane (1,1-)  Dichilorobethane (1,1-)  Dichilorobethane (1,1-)  Dichilorobethane (1,1-)  Dichilorobethane (1,1-)  Dichilorophane (1,2-)  Dichilorophane (1,2-)  Dichilorophane (1,2-)  Dichiloropropane (1,2-)  Dichiloropropane (1,2-)  Dichiloropropane (1,2-)  Dichiloropropane (1,2-)  Dichiloropropane (1,1-)	SCM   SCM	Certified	SW-945 8250B SW-946 8250B	GCMS, P&T or Direct Injection, Capillary SCMS, P&T or Direct Injection, GCMS, P&T or Direct Injection,	SCM10.04750 SCM10.047750 SCM10.04770 SCM10.04810 SCM10.04830 SCM10.04830 SCM10.04830 SCM10.04830 SCM10.04850 SCM10.05000	Yes	222222222222222222222222222222222222222	12/2/008 7/1/2007
Butanol (1-)  Butanol (1-)  Butanol (1-)  Butanol (1-)  Butanol (1-)  Butanol (1-)  Carbon disuffide  Carbon disuffide  Carbon disuffide  Chicrobethane  (1-)  Dibromo-3-chicropropane  (1,2-)  Dibromo-bethane  Chicrobethane  Chicrob	SCM   SCM	Certified	SW-945 8250B SW-946 8250B SW-946 8250B SW-946 8250B SW-946 8250B SW-945 8250B SW-945 8250B SW-945 8250B SW-945 8250B SW-945 8250B SW-946 8250B	GOMS, P&T or Direct Injection, Capillary GCMS, P & T or Direct Injection,	SCM10.04750 SCM10.04750 SCM10.04710 SCM10.04810 SCM10.04810 SCM10.04830 SCM10.04830 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04800 SCM10.04900 SCM10.05000	Yes	222222222222222222222222222222222222222	12/2/2008 7/1/2005 7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2003 7/1/2003 7/1/2004 7/1/2005 7/1/2005 7/1/2004 7/1/2004 7/1/2004 7/1/2004 7/1/2004 7/1/2004 7/1/2004 7/1/2004 7/1/2004 7/1/2004 7/1/2005
Butano (1-)  Butano (1-)  Butano (1-)  Butano (1-)  Butano (1-)  Butano (1-)  Garbon disuffide  Carbon disuffide  Carbon disuffide  Chioroethane  Dibromo-3-chioropropane (1,2-)  Dibromo-3-chioropropane (1,2-)  Dibromoethane  Dibromoethane  Dibromoethane  Chioroethane	SCM   SCM	Certified	SW-945 8250B SW-946 8250B	GOMS, P&T or Direct Injection, Capillary SCMS, P&T or Direct Injection, GCMS, P&T or Direct Injection,	SCM10.04750 SCM10.04770 SCM10.04870 SCM10.04810 SCM10.04830 SCM10.04830 SCM10.04830 SCM10.04830 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04850 SCM10.04800 SCM10.05000	Yes	222222222222222222222222222222222222222	12/2/008 7/1/2007 7/1
Butanoi (1-)  Butanoi (1-)  Butanoi (1-)  Butanoi (1-)  Butanoi (1-)  Butanoi (1-)  Carbon disuffide  Carbon disuffide  Carbon disuffide  Chicroethane  Cyciohexano  Dibromo-3-chicoppopane (1,2-)  Dibromo-3-chicoppopane (1,2-)  Dibromo-3-chicoppopane  Dibromo-3-chicoppopane  Dibromo-1-2-butene  Dibromo-1-2-butene  Dibromo-1-2-butene  Dibromo-1-2-butene  Dibromoethane  (1,3-)  Dichicroethane  (1,1-)  Dichicroethane  (1,1-)  Dichicroethane  (1,2-)  Dichicroethane  (1,2-)  Dichicroethane  (1,2-)  Dichicropropane  (1,3-)	SCM   SCM	Certified	SW-945 8250B SW-946 8250B	GOMS, P&T or Direct Injection, Capillary SCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	SCM10.04750 SCM10.04770 SCM10.04770 SCM10.04810 SCM10.04830 SCM10.04830 SCM10.04830 SCM10.04830 SCM10.04850 SCM10.05030 SCM10.05030 SCM10.05030 SCM10.05040 SCM10.05040 SCM10.05040 SCM10.05050 SCM10.05105	Yes	222222222222222222222222222222222222222	12/2/2008 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005 12/2/2008 7/1/2005 12/2/2008 7/1/2005 12/2/2008 7/1/2005
Butanoi (1-)  Butanoi (1-)  Butanoi (1-)  Butanoi (1-)  Butanoi (1-)  Butanoi (1-)  Garbon disuffide  Carbon disuffide  Carbon disuffide  Chiorobenzene  Chiorobenzene  Chiorobenzene  Chiorobenzene  Chiorobenzene  Chiorobiane  Chiorobiane  Chiorobiane  (1-)  Chiorobiane  (2-)  Chiorobiane  (2-)  Chiorobiane  (2-)  Chiorobiane  Dibromo-3-chioropropane (1,2-)  Dibromo-3-chioropropane (1,2-)  Dibromo-chioromethane  Dibromo-chioromethane  Dibromo-chioromethane  Dibromo-chioromethane  (1,2-)  Dichiorobenzene (1,3-)  Dichioropropane (1,3-)	SCM   SCM	Certified	SW-946 8250B	GOMS, P&T or Direct Injection, Capillary GOMS, P&T or Direct Injection, GCMS, P&T or Direct Injection,	SCM10.04750 SCM10.04750 SCM10.04770 SCM10.04810 SCM10.04810 SCM10.04800 SCM10.05000	Yes	222222222222222222222222222222222222222	12/2/008 7/1/2007 7/1/2007 7/1/2007 7/1/2007 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2003 12/2/2008 12/2/2008 12/2/2008 12/2/2008 12/2/2008 12/2/2008 12/2/2008 12/1/2002 7/1/2002
Butanoi (1-)  Southern (2-) Piecepricaly  Butanoi (2-)  Butanoi (2-)  Carbon disuffide  Carbon disuffide  Chioroethane  Chioroethane  Chioroethane  Chiorothane	SCM   SCM	Certified	SW-945 8250B SW-946 8250B	GCMS, P&T or Direct Injection, Capillary SCMS, P&T or Direct Injection, GCMS, P&T or Direct I	SCM10.04750 SCM10.04770 SCM10.04770 SCM10.04810 SCM10.04830 SCM10.04830 SCM10.04830 SCM10.04830 SCM10.04830 SCM10.04850 SCM10.04850 SCM10.04860 SCM10.04860 SCM10.04870	Yes	222222222222222222222222222222222222222	12/2/2008 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2003 12/2/2008
Butanoi (1-)  butanoi (1-)  butanoi (1-)  butanoi (1-)  butanoi (1-)  Carbon disuffide  Carbon disuffide  Chiorothan  Chiorothane  Cyciohexanone  Dibromo-S-hioropropane (1,2-)  Dibromo-Chioromethane  Dibromo-Chioromethane  Dibromo-Chioromethane  Dibromo-Chiorothane  Chiorothane   SCM   SCM	Certified	SW-945 8250B SW-946 8250B SW-946 8250B SW-946 8250B SW-946 8250B SW-946 8250B SW-945 8250B SW-945 8250B SW-945 8250B SW-946 8250B	GOMS, P&T or Direct Injection, Capillary GCMS, P & T or Direct Injection,	SCM10.04750 SCM10.04750 SCM10.04710 SCM10.04810 SCM10.04810 SCM10.04830 SCM10.04830 SCM10.04860 SCM10.05860	Yes	222222222222222222222222222222222222222	12/2/2008 7/1/2007 7/1/2007 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2003 7/1/2005 7/1/2006 7/1/2006 7/1/2006 7/1/2006 7/1/2006 7/1/2006 7/1/2007	
Butanoi (1-)  Southern (2-) Piecepricaly  Butanoi (2-)  Butanoi (2-)  Carbon disuffide  Carbon disuffide  Chioroethane  Chioroethane  Chioroethane  Chiorothane	SCM   SCM	Certified	SW-945 8250B SW-946 8250B	GCMS, P&T or Direct Injection, Capillary SCMS, P&T or Direct Injection, GCMS, P&T or Direct I	SCM10.04750 SCM10.04770 SCM10.04770 SCM10.04810 SCM10.04830 SCM10.04830 SCM10.04830 SCM10.04830 SCM10.04830 SCM10.04850 SCM10.04850 SCM10.04860 SCM10.04860 SCM10.04870	Yes	222222222222222222222222222222222222222	12/2/2008 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2003 12/2/2008



International Content   12   20									
International Content   12   20	Heptane (n-)	SCM	Certified	SW-846 8260B	GCMS, P&T, or Direct Injection, Capillary	SCM10.05220	Yes	NJ	1/23/2012
International	- representative programmes								7/1/2002
Impage   D		SCM							7/1/2002
Internation   12   10   10   10   10   10   10   10		SCM	Certified	SW-846 8260B		SCM10.05250		NJ	1/23/2012
Section   Colin   Centre   Chief   State   Colin   F. F. T. O'RECT   Resident   Chief   State   Chief   Chie		SCM		SW-846 8260B	GC/MS, P & T or Direct Injection,	SCM10.05260	Yes		7/1/2002
Improving price   Do.   Certific   SP-146   ESSB   SOME P \$7 or Dest recom.   CANTESSTS   V5 S. N.   P7   P7   P7   P7   P7   P7   P7   P	Iso-butyl alcohol	SCM	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	SCM10.05270	Yes	NJ	7/1/2005
South   Part		SCM	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	SCM10.05300	Yes	NJ	7/1/2005
Insert   Section   Color   Centre   Color   Centre   Color   Color   Centre   Color   Centre   Color   Centre	Isopropyltoluene (4-)	SCM	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	SCM10.05310	Yes	NJ	7/1/2005
International Color	Methacrylonitrile	SCM	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	SCM10.05320	Yes	NJ	7/1/2005
International Cold   Centres   Control Contr	Methyl acetate	SCM	Certified	SW-846 8260B	GC/MS, P&T, or Direct Injection, Capillary	SCM10.05330	Yes	NJ	12/2/2008
Limby   Intelluy   February	Methyl acrylate	SCM	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	SCM10.05340	Yes	NJ	7/1/2007
Limby tendough refer*   COM   Centres   Comed   15568   Comed   Come	Methyl lodide	SCM	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	SCM10.05350	Yes	NJ	7/1/2004
Methylenet chronol   Gold   Gorffel   (Michel 1958)   Gold   Gold   Gold   February   Gold		SCM	Certified	SW-846 8260B	GC/MS, P & T or Direct Injection,	SCM10.05360	Yes	NJ	7/1/2005
Marty-prince plane   DOM					GC/MS, P & T or Direct Injection,		Yes		7/1/2002
Continues the continues   Co	Methylcyclohexane	SCM	Certified	SW-846 8260B		SCM10.05380	Yes	NJ	4/6/2010
Schlingstrage   SCAL   Centres   SCAL   Part of Prescriptions   SCAL   Part of Prescription	Methylene chloride	SCM	Certified	SW-846 8260B		SCM10 05390	Ves	N.I	7/1/2002
SECURITY   Committee   COLD   Conference   C	(Dichloromethane)								
Peter Service Peter   SOAL Centree   Control									7/1/2002
Performance   Amening   Column   Country   Column   Col				011 0-10 00000					12/2/2008
Proportiere   Prop   Column   Control   Column			Certified						7/1/2005
Proposed print   COUNTY   Co									7/1/2002
Sec duplementer	· representative								7/1/2005
September   Change   SOM   Services   SOM   Services   SOM   SERVICE   SERVICE   SOM   SERVICE   SERVICE   SOM   SERVICE   SERVICE   SOM   SERVICE									7/1/2005
Interview present (TANIE)   IOM Centred   IOM-645 80068   IOSMS, P. 17 or Drest Injection,   IOM-1055650   Ves. NJ 171/1   IOM-645 80068   IOSMS, P. 17 or Drest Injection,   IOM-1056550   Ves. NJ 771/1   IOM-645 80068   IOSMS, P. 17 or Drest Injection,   IOM-1056550   Ves. NJ 771/1   IOM-645 80068									7/1/2005
Tenducybersene									7/1/2002
Technological part   SUM   Centres   SUM   SUSSES   SUSSES   SUSSES   SUSSES   SUSSES   Technological part   Tec				911 0 10 10010				NJ	12/1/2006
Transpondentate (1,1,2)   SOM				011 0-10 12000					7/1/2004
Transpringer   Sept	Tert-butylbenzene		Certified	SW-846 8260B	GCMS, P & T or Direct Injection,	SCM10.05560	Yes	NJ	7/1/2005
Transpropriation   SOM   Certified   SW-946 83568   SCAMS, P. 8 T or Direct Injection,   SCAM 0.5550   Yes   NJ   771/1071   Training (1,7-3) influence than   SOM   Certified   SW-946 83568   SCAMS, P. 8 T or O'Perd Injection,   SCAM 0.5550   Yes   NJ   771/1071   Yes	Tetrachioroethane (1,1,1,2-)	SCM	Certified	SW-846 8260B	GCMS, P & T or Direct Injection,	SCM10.05570	Yes	NJ	7/1/2002
Transpropriation   SOM   Certified   SW-946 83568   SCAMS, P. 8 T or Direct Injection,   SCAM 0.5550   Yes   NJ   771/1071   Training (1,7-3) influence than   SOM   Certified   SW-946 83568   SCAMS, P. 8 T or O'Perd Injection,   SCAM 0.5550   Yes   NJ   771/1071   Yes	Tetrachioroethane (1,1,2,2-)		Certified	SW-846 8260B		SCM10.05580	Yes	NJ	7/1/2002
Transportungs									7/1/2002
Trucking   SOM   Certified   SW-948 S3508   CAMB, P. 8 To O'Derd Injection,   SOM S058   Yes   NJ   7717   Trucking (1,2-2)   SOM   Certified   SW-948 S3508   CAMB, P. 8 To O'Derd Injection,   SOM S0585   Yes   NJ   7717   Trucking (1,2-2)   SOM   Certified   SW-948 S3508   CAMB, P. 8 To O'Derd Injection,   SOM S0585   Yes   NJ   7717   Trucking (1,2-2)   SOM   Certified   SW-948 S3508   SOM S0545   P. 8 To O'Derd Injection,   SOM S0545   Yes   NJ   7717   Trucking (1,2-2)   SOM   Certified   SW-948 S3508   SOM S0545   P. 8 To O'Derd Injection,   SOM S0545   Yes   NJ   7717   Trucking (1,2-2)   SOM   Certified   SW-948 S3508   SOM S0545   P. 8 To O'Derd Injection,   SOM S0545   Yes   NJ   7717   Trucking (1,2-2)   SOM   Certified   SW-948 S3508   SOM S0545   P. 8 To O'Derd Injection,   SOM S0545   Yes   NJ   7717   Trucking (1,2-2)   SOM   Certified   SW-948 S3508   SOM S0545   P. 8 To O'Derd Injection,   SOM S0545   Yes   NJ   7717   Trucking (1,2-2)   SOM   Certified   SW-948 S3508   SOM S0545   P. 8 To O'Derd Injection,   SOM S0545   Yes   NJ   7717   Trucking (1,2-2)   SOM   Certified   SW-948 S3508   SOM S0545   P. 8 To O'Derd Injection,   SOM S0545   Yes   NJ   7717   Trucking (1,2-2)   SOM   Certified   SW-948 S3508   SOM S0545   P. 8 To O'Derd Injection,   SOM S0545   Yes   NJ   7717   Trucking (1,2-2)   SOM   Certified   SW-948 S3508   SOM S0545   P. 8 To O'Derd Injection,   SOM S0545   Yes   NJ   7717   Trucking (1,2-2)   SOM   Certified   SW-948 S3508   SOM S0545   P. 8 To O'Derd Injection,   SOM S0545   Yes   NJ   7717   Trucking (1,2-2)   SOM   Certified   SW-948 S3508   SOM S0545   P. 8 To O'Derd Injection,   SOM S0545   Yes   NJ   7717   Trucking (1,2-2)   SOM   Certified   SW-948 S3508   SOM S0545   P. 8 To O'Derd Injection,   SOM S0545   Yes   NJ   7717   Trucking (1,2-2)   SOM   Certified   SW-948 S3508   SOM S0545   P. 8 To O'Derd Injection,   SOM S0545   Yes   NJ   7717   Trucking (1,2-2)   SOM S0545   P. 8 To O'Derd Injection,   SOM S0545   Yes   NJ   7717   Trucking (1,2-2)   SOM S0545		SCM			GC/MS, P & T or Direct Injection,		Yes		7/1/2005
Trichonopeage (1,2-)   Trichonopeage (1,2-)   SCAL   Centine   SV-946 \$2508   SCALS, P.S. T. or Direct Injection, SCALS   SCALS   Ves. N.   7717, Versionopeage (1,2-)   SCALS   Centines   SV-946 \$2508   SCALS, P.S. T. or Direct Injection, SCALS   SCALS   Ves. N.   7717, Versionopeage (1,2-)   SCALS   SCALS   Ves. N.   7717, Versionopeage (1,2-)   SCALS   SCALS   Ves. N.   7717, Versionopeage (1,1-)   SCALS   SCALS   Ves. N.   7717, Versionopeage (1,2-)   SCALS		SCM			GC/MS, P & T or Direct Injection,		Yes		7/1/2002
Capillary   Control   Certified   Shire   School   Certified   Shire   School   Certified   Shire   School					GCMS, P & T or Direct Injection,		W		
Trichosperage (1,2-)		SCM	Centified	SW-846 8260B	Capillary	SCM10.05630	res	NJ	7/1/2004
Trichosperame (1,2,4)  SCM Certified  SV-448 83568  SCMS, P. 8 T or Dreck Injection,  SCMID (2687)  Trichosperame (1,1,4)  SCM Certified  SV-448 83568  SCMS, P. 8 T or Dreck Injection,  SCMID (2687)  SCMID (2688)		SCM	Certified	SW-846 8260B		SCM10.05640	Yes	NJ	7/1/2005
Trichispenhane (1,1,2)		SCM	Certified	SW-846 8260B		SCM10.05650			7/1/2002
Trichlorophame (1,1,2-)									7/1/2002
Trichisophement									7/1/2002
Trichologropromithate				011 0-10 00000					7/1/2002
Trichioppropage (1,2-)   SOM   Certified   SW-948-8306B   GCMS, P. 8 Tor Direct Injection,   SCM10,65700   Yes   NJ   7711.				011 0-10 02000					7/1/2002
Trimetujbenzane (1,3-1)									7/1/2004
Trimethylentamen (1,3,5-)									7/1/2004
Immeditypentanc (2.2.4)   SOM   Certified   SIV-948 \$350B   SOAMS, ENTER OF IPIT, COURT OF IPI									
Spring   S		-		011 0-10 00000					7/1/2005
Vary   Variety		-							10/15/2010
Xylene (m-)   SCM   Certified   SW-848 \$3505   GCMS, P. 8.T. or Direct Injection,   SCM10.05770   Ves   N.						00111000100			7/1/2004 7/1/2002
Xylene (br)   SCM   Certified   SW-848 \$3508   GCMS, P. & Tor Direct Injection,   GCMID.05780   Yes   N.1   77/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/									
Xylenes (1014)   SCM   Certified   SW-848 \$3508   GCMMS   P. 8 Tor Direct Injection,   SCMM10.05790   Ves   N.1   7717/	and the same of th								7/1/2005
Extraction   SCM   Certified   SW-948 SESOB   SCMS, P. B. T. or Direct Injection,   SCM10.05800   Yes   N.   7717.									7/1/2005
Accionation									7/1/2005
Activation									7/1/2002
Acrolication									7/1/2002
April chioride									7/1/2004
April Chloride   SCM   Certified   SW-846 8250C   GCMS, P. B. T. or Drect Injection, SCM10.05850   Yes   NJ   71/10									7/1/2002
Benzale									7/1/2002
Bentyl chloride				SW-846 8260C	GC/MS, P & T or Direct Injection,				7/1/2005
	Benzene			SW-846 8260C		SCM10.05870			7/1/2002
Semochloromethane	Benzyl chloride		Certified			SCM10.05880		NJ	7/1/2007
Schools   Scho	Bromobenzene		Certified	SW-846 8260C		SCM10.05890		NJ	7/1/2005
Bromodichloromethane									7/1/2005
Erromomethame	Bromodichioromethane		Certified						7/1/2002
Butanol (1-)   SCM   Certified   SW-845 8250C   SCMS, P. 8.T or Direct Injection, Schlid 0,5950   Yes   NJ   7/1/2									7/1/2002
Butanol (1-)   SCM   Certified   SW-946 8250C   GCMS, PAT, or Direct Injection, Capillary   SCM10.05950   Yes   NJ   12/20   Sutanol (3,3-0)   SCM10.05970   Yes   NJ   Sign   Sign   Sutanol (3,3-0)   ScM10.05970   Yes   NJ   Sign   Sutanol (3,3-0)   Sign   Sign   Sign   Sign   Sign   Sign   Si							Yes		7/1/2002
Substitution   Schill   Schill   Schill   Schill   Swi-945 8250C   Schills   Schill   Schill   Schill   Swi-945 8250C   Schills   Schill   Swi-945 8250C   Schills   Swi-945 8250C   Schills   Schill   Swi-945 8250C   Schills					GCMS, P & T or Direct Injection,		Yes		7/1/2007
							Yes	NJ	12/2/2008
Patient   Patient   SCM   Certified   SW-945 8250C   GCMS, P. 8.1 or Direct Injection, Gapillary SCM10.05990   Yes   NJ   7/1/2	Butanoi (3,3-Dimethyl-1-)			011 040 02000			Yes	NJ	9/8/2016
Subhybertzene (n-)	ketonel			SW-846 8260C		SCM10.05980	Yes	NJ	7/1/2002
Subhybertzene (n-)	Butyl formate (t-)		Certified	SW-846 8260C	GCMS, P&T, or Direct Injection, Capillary	SCM10.05990	Yes	NJ	9/8/2016
Carbon disudfide					GC/MS, P & T or Direct Injection,		Yes	NJ	7/1/2005
Carton tetrachloride   SCM   Certified   SW-946 3250C   GCMS, P. 8 T or Direct Injection, SCM10,05030   Yes   NJ   7/10		SCM			GC/MS, P & T or Direct Injection,				7/1/2002
Chiorosthane				SW-846 8260C			Yes		7/1/2002
Chioroethane		SCM					Yes		7/1/2002
Chiorotethyl vinyl ether (2-)   SCM   Certified   SW-946 3250C   GCMS, P. 8.T or Direct Injection,   SCM10.05070   Yes   NJ   7/1/C   Chiorotem   SCM   Certified   SW-946 3250C   GCMS, P. 8.T or Direct Injection,   SCM10.05080   Yes   NJ   7/1/C   Chioroteliane   SCM   Certified   SW-946 3250C   GCMS, P. 8.T or Direct Injection,   SCM10.05080   Yes   NJ   7/1/C   Chiorotoluene (2-)   SCM   Certified   SW-946 3250C   GCMS, P. 8.T or Direct Injection,   SCM10.05090   Yes   NJ   7/1/C   Chiorotoluene (3-)   SCM   Certified   SW-946 3250C   GCMS, P. 8.T or Direct Injection,   SCM10.05100   Yes   NJ   7/1/C   Cyclohexane   SCM   Certified   SW-946 3250C   GCMS, P. 8.T or Direct Injection,   SCM10.05100   Yes   NJ   7/1/C   Cyclohexane   SCM   Certified   SW-946 3250C   GCMS, P. 8.T or Direct Injection,   SCM10.05130   Yes   NJ   7/1/C   Cyclohexane   SCM   Certified   SW-946 3250C   GCMS, P. 8.T or Direct Injection,   SCM10.05130   Yes   NJ   7/1/C   Dibromo-5-thioropropane (1,2-)   SCM   Certified   SW-946 3250C   GCMS, P. 8.T or Direct Injection,   SCM10.05130   Yes   NJ   7/1/C   Dibromo-5-thioropropane (1,2-)   SCM   Certified   SW-946 3250C   GCMS, P. 8.T or Direct Injection,   SCM10.05150   Yes   NJ   7/1/C   Dibromo-thioromethane   SCM   Certified   SW-946 3250C   GCMS, P. 8.T or Direct Injection,   SCM10.05160   Yes   NJ   7/1/C   Dibromoethane   SCM   Certified   SW-946 3250C   GCMS, P. 8.T or Direct Injection,   SCM10.05160   Yes   NJ   7/1/C   Dibromoethane   SCM   Certified   SW-946 3250C   GCMS, P. 8.T or Direct Injection,   SCM10.05180   Yes   NJ   7/1/C   Dichiorobetrate (1,2-)   SCM   Certified   SW-946 3250C   GCMS, P. 8.T or Direct Injection,   SCM10.05180   Yes   NJ   7/1/C   Dichiorobetrate (1,2-)   SCM   Certified   SW-946 3250C   GCMS, P. 8.T or Direct Injection,   SCM10.05180   Yes   NJ   7/1/C   Dichiorobetrate (1,2-)   SCM   Certified   SW-946 3250C   GCMS, P. 8.T or Direct Injection,   SCM10.05220   Yes   NJ   7/1/C   Dichiorobetrate (1,2-)   SCM   Certified   SW-946 3250C   GCMS, P. 8.T	Oblessathers	SCM	Certified	SW-846 8260C	GC/MS, P & T or Direct Injection,	SCM10.06060	Yes	NJ	7/1/2002
Chioroform		SCM	Certified	SW-846 8260C	GCMS, P & T or Direct Injection,		Yes	NJ	7/1/2002
Chiorotoluene (2-)   SCM   Certified   SW-848 3250C   SCMS, P. 8.T or Direct Injection,   SCM10.05030   Yes   NJ   7/10.				SW-846 8260C				NJ	7/1/2002
Chiorotoluene (2-)   SCM   Certified   SW-946 8250C   GCMS, P. 8.T or Direct Injection,   SCM10.05100   Yes   NJ   7:110   Chiorotoluene (4-)   SCM   Certified   SW-946 8250C   GCMS, P. 8.T or Direct Injection,   SCM10.05100   Yes   NJ   7:110   Yes   NJ   Yes		SCM						NJ	7/1/2002
Chiorotoluene (4)   SCM   Certified   SW-945 8250C   SCMS, P. 8.T or Direct Injection,   SCM10.06110   Yes   NJ   7710   Yes		SCM							7/1/2005
Cyclohexane									7/1/2005
Cyclohexanone   Cyclohexanon									12/2/2008
Dibromo-3-chioropropane (1,2-)   SCM   Certified   SW-946 \$250C   GCMS, P. 8.T or Direct Injection,   SCM10.0615D   Yes   NJ   7/10.   Dibromochioromethane   SCM   Certified   SW-946 \$250C   GCMS, P. 8.T or Direct Injection,   SCM10.0616D   Yes   NJ   7/10.   Dibromochiane (1,2-) (EDB)   SCM   Certified   SW-946 \$250C   GCMS, P. 8.T or Direct Injection,   SCM10.0616D   Yes   NJ   7/10.   Dibromomethane   SCM   Certified   SW-946 \$250C   GCMS, P. 8.T or Direct Injection,   SCM10.0618D   Yes   NJ   7/10.   Dichioro-2-outene (trans-1,4-)   SCM   Certified   SW-946 \$250C   GCMS, P. 8.T or Direct Injection,   SCM10.0618D   Yes   NJ   7/10.   Dichiorobertzene (1,2-)   SCM   Certified   SW-946 \$250C   GCMS, P. 8.T or Direct Injection,   SCM10.0621D   Yes   NJ   7/10.   Dichiorobertzene (1,3-)   SCM   Certified   SW-946 \$250C   GCMS, P. 8.T or Direct Injection,   SCM10.0621D   Yes   NJ   7/10.   Dichiorobertzene (1,4-)   SCM   Certified   SW-946 \$250C   GCMS, P. 8.T or Direct Injection,   SCM10.0623D   Yes   NJ   7/10.   Dichiorochiane (1,4-)   SCM   Certified   SW-946 \$250C   GCMS, P. 8.T or Direct Injection,   SCM10.0623D   Yes   NJ   7/10.   Dichiorochiane (1,1-)   SCM   Certified   SW-946 \$250C   GCMS, P. 8.T or Direct Injection,   SCM10.0623D   Yes   NJ   7/10.   Dichiorochiane (1,1-)   SCM   Certified   SW-946 \$250C   GCMS, P. 8.T or Direct Injection,   SCM10.0623D   Yes   NJ   7/10.   Dichiorochiane (1,1-)   SCM   Certified   SW-946 \$250C   GCMS, P. 8.T or Direct Injection,   SCM10.0625D   Yes   NJ   7/10.   Dichiorochiane (1,1-)   SCM   Certified   SW-946 \$250C   GCMS, P. 8.T or Direct Injection,   SCM10.0625D   Yes   NJ   7/10.   Dichiorochiane (1,1-)   SCM   Certified   SW-946 \$250C   GCMS, P. 8.T or Direct Injection,   SCM10.0625D   Yes   NJ   7/10.   Dichiorochiane (1,1-)   SCM   Certified   SW-946 \$250C   GCMS, P. 8.T or Direct Injection,   SCM10.0625D   Yes   NJ   7/10.   Dichiorochiane (1,1-)   SCM   Certified   SW-946 \$250C   GCMS, P. 8.T or Direct Injection,   SCM10.0625D   Yes   NJ   7/10.   Dichior	•								7/1/2005
Dibromochioromehane									7/1/2004
Dibromoethane (1,2-) (EDB)   SCM   Certified   SW-946 8250C   GCMS, P. 8.T or Direct Injection,   SCM10.05170   Yes   NJ   7:1/L   Dibromoethane   SCM   Certified   SW-946 8250C   GCMS, P. 8.T or Direct Injection,   SCM10.05180   Yes   NJ   12:1/L   Dichioro-2-outene (1yang-1,4-)   SCM   Certified   SW-946 8250C   GCMS, P. 8.T or Direct Injection,   SCM10.05180   Yes   NJ   7:1/L   Dichiorotenzene (1,2-)   SCM   Certified   SW-946 8250C   GCMS, P. 8.T or Direct Injection,   SCM10.05210   Yes   NJ   7:1/L   Dichiorotenzene (1,3-)   SCM   Certified   SW-946 8250C   GCMS, P. 8.T or Direct Injection,   SCM10.05210   Yes   NJ   7:1/L   Dichiorotenzene (1,4-)   SCM   Certified   SW-946 8250C   GCMS, P. 8.T or Direct Injection,   SCM10.05230   Yes   NJ   7:1/L   Dichiorotenzene (1,4-)   SCM   Certified   SW-946 8250C   GCMS, P. 8.T or Direct Injection,   SCM10.05230   Yes   NJ   7:1/L   Dichiorotenzene (1,4-)   SCM   Certified   SW-946 8250C   GCMS, P. 8.T or Direct Injection,   SCM10.05230   Yes   NJ   7:1/L   Dichiorotethane (1,1-)   SCM   Certified   SW-946 8250C   GCMS, P. 8.T or Direct Injection,   SCM10.05250   Yes   NJ   7:1/L   Dichiorotethane (1,2-)   SCM   Certified   SW-946 8250C   GCMS, P. 8.T or Direct Injection,   SCM10.05250   Yes   NJ   7:1/L   Dichiorotethane (1,2-)   SCM   Certified   SW-946 8250C   GCMS, P. 8.T or Direct Injection,   SCM10.05250   Yes   NJ   7:1/L   Dichiorotethane (1,2-)   SCM   Certified   SW-946 8250C   GCMS, P. 8.T or Direct Injection,   SCM10.05270   Yes   NJ   7:1/L   Dichiorotethane (1,2-)   SCM   Certified   SW-946 8250C   GCMS, P. 8.T or Direct Injection,   SCM10.05270   Yes   NJ   7:1/L									7/1/2002
Dibromomethane   SCM   Certified   SW-845 8250C   GCMS, P. 8.T or Direct Injection,   SCM10.05180   Yes   NJ   12/10.									7/1/2002
Dichioro-2-butene (trans-1,4-)   SCM   Certified   SW-946 \$250C   GCMS, P.S.T. or Direct Injection, SCM10.05200   Yes   NJ   7716   Dichioro-2-butene (trans-1,4-)   SCM   Certified   SW-946 \$250C   GCMS, P.S.T. or Direct Injection, SCM10.05210   Yes   NJ   7716   SCM   Certified   SW-946 \$250C   GCMS, P.S.T. or Direct Injection, SCM10.05210   Yes   NJ   7716   SCM   Certified   SW-946 \$250C   GCMS, P.S.T. or Direct Injection, SCM10.05220   Yes   NJ   7716   SCM   Certified   SW-946 \$250C   GCMS, P.S.T. or Direct Injection, SCM10.05230   Yes   NJ   7716   SCM   Certified   SW-946 \$250C   GCMS, P.S.T. or Direct Injection, SCM10.05230   Yes   NJ   7716   Dichiorocity   SCM10.05230   Yes   NJ   7716   Trans-100									12/1/2004
Dichiprobenzene (1,2-)   SCM   Certified   SW-946 \$250C   GCMS, P & T or Direct Injection,   SCM10.05210   Yes   NJ   7/1/L									7/1/2004
Dichiorobenzene (1,3-)   SCM   Certified   SW-945 8250C   GCMS, P. 8.T or Direct Injection,   SCM10.0522D   Yes   NJ   7/10.   Dichiorobenzene (1,4-)   SCM   Certified   SW-945 8250C   GCMS, P. 8.T or Direct Injection,   SCM10.0523D   Yes   NJ   7/10.   Dichiorochanoromethane   SCM   Certified   SW-945 8250C   GCMS, P. 8.T or Direct Injection,   SCM10.0524D   Yes   NJ   7/10.   Dichiorochane (1,1-)   SCM   Certified   SW-945 8250C   GCMS, P. 8.T or Direct Injection,   SCM10.0525D   Yes   NJ   7/10.   Dichiorochane (1,2-)   SCM   Certified   SW-945 8250C   GCMS, P. 8.T or Direct Injection,   SCM10.0525D   Yes   NJ   7/10.   Dichiorochane (1,1-)   SCM   Certified   SW-945 8250C   GCMS, P. 8.T or Direct Injection,   SCM10.0525D   Yes   NJ   7/10.   Dichiorochane (1,1-)   SCM   Certified   SW-945 8250C   GCMS, P. 8.T or Direct Injection,   SCM10.0527D   Yes   NJ   7/10.   Dichiorochane (1,1-)   SCM   Certified   SW-945 8250C   GCMS, P. 8.T or Direct Injection,   SCM10.0527D   Yes   NJ   7/10.   Dichiorochane (1,1-)   SCM   Certified   SW-945 8250C   GCMS, P. 8.T or Direct Injection,   SCM10.0527D   Yes   NJ   7/10.   Dichiorochane (1,1-)   SCM   Certified   SW-945 8250C   GCMS, P. 8.T or Direct Injection,   SCM10.0527D   Yes   NJ   7/10.   Dichiorochane (1,1-)   SCM   Certified   SW-945 8250C   GCMS, P. 8.T or Direct Injection,   SCM10.0527D   Yes   NJ   7/10.   Dichiorochane (1,1-)   SCM   Certified   SW-945 8250C   GCMS, P. 8.T or Direct Injection,   SCM10.0527D   Yes   NJ   7/10.   Dichiorochane (1,1-)   SCM   Certified   SW-945 8250C   GCMS, P. 8.T or Direct Injection,   SCM10.0527D   Yes   NJ   7/10.   Dichiorochane (1,1-)   SCM   Certified   SW-945 8250C   GCMS, P. 8.T or Direct Injection,   SCM10.0527D   Yes   NJ   7/10.									
Dichiorobertzene (1,4-)   SCM   Certified   SW-946 \$250C   GCMS, P. 8.T or Direct Injection,   SCM10.05230   Yes   NJ   77/12   Cichiorostiturormethane   SCM   Certified   SW-946 \$250C   GCMS, P. 8.T or Direct Injection,   SCM10.05240   Yes   NJ   77/12   Cichiorobtane (1,1-)   SCM   Certified   SW-946 \$250C   GCMS, P. 8.T or Direct Injection,   SCM10.05250   Yes   NJ   77/12   Cichiorobtane (1,2-)   SCM   Certified   SW-946 \$250C   GCMS, P. 8.T or Direct Injection,   SCM10.05250   Yes   NJ   77/12   Company   Translation   Tr									7/1/2002 7/1/2002
Dichiorodifluoromethane   SCM   Certified   SW-945 8250C   GCMS, P. 8.T or Direct Injection,   SCM10.0524D   Yes   NJ   7/10.									
Dichiorosthane (1,1-)   SCM   Certified   SW-945 8250C   GCMS, P & T or Direct Injection,   SCM10.05250   Yes   NJ   7/10   Dichiorosthane (1,2-)   SCM   Certified   SW-945 8250C   GCMS, P & T or Direct Injection,   SCM10.05250   Yes   NJ   7/10   Yes   NJ   Yes									7/1/2002
Dichiproethane (1,2-)   SCM   Certified   SW-845 8250C   GCMS, P. 8.T or Direct Injection,   SCM10.05250   Yes   NJ   7/10,   Dichiproethene (1,1-)   SCM   Certified   SW-845 8250C   GCMS, P. 8.T or Direct Injection,   SCM10.05270   Yes   NJ   7/10,     7/10,									7/1/2002
Dichloroethene (1,1-) SCM Certified SW-946 8260C GCMS, P & T or Direct Injection, SCM10.06270 Yes NJ 7/1/2				***************************************					7/1/2002
									7/1/2002
Dichioroethene (cis-1,2-) SCM   Certified   SW-846 8260C   GCM8, P & T or Direct Injection,   SCM10.06280   Yes   NJ   7/1/2									7/1/2002
	Dichioroethene (cls-1,2-)	SCM	Certified	SW-846 8260C	GC/MS, P & T or Direct Injection,	SCM10.06280	Yes	NJ	7/1/2002



Dichloroethene (trans-1,2-)	SCM	Certified	SW-846 8260C	GC/MS, P & T or Direct Injection,	SCM10.06290	Yes	NJ	7/1/2002
Dichioropropane (1,2-)	SCM	Certified	SW-846 8260C	GCMS, P & T or Direct Injection,	SCM10.06300	Yes	NJ	7/1/2002
Dichioropropane (1,3-)	SCM	Certified	SW-846 8260C	GCMS, P & T or Direct Injection,	SCM10.06310	Yes	NJ	7/1/2005
Dichioropropane (2,2-)	SCM	Certified	SW-846 8260C	GC/MS, P & T or Direct Injection,	SCM10.06320	Yes	NJ	7/1/2005
Dichloropropene (1,1-)	SCM	Certified	SW-846 8260C	GCMS, P & T or Direct Injection,	SCM10.06330	Yes	NJ	7/1/2005
Dichioropropene (cis-1,3-)	SCM	Certified	SW-846 8260C	GC/MS, P & T or Direct Injection,	SCM10.06340	Yes	NJ	7/1/2002
Dichioropropene (trans-1,3-)	SCM	Certified	SW-846 8260C	GC/MS, P & T or Direct Injection,	SCM10.06350	Yes	NJ	7/1/2002
Diethyl ether (Ethyl ether)	SCM	Certified	SW-846 8260C	GCMS, P & T or Direct Injection,	SCM10.06360	Yes	NJ	7/1/2005
Disopropyl Ether [DIPE]	SCM	Certified	SW-846 8260C	GCMS, P & T or Direct Injection,	SCM10.06370	Yes	NJ	12/1/2006
Dioxane (1,4-)	SCM	Certified	SW-846 8260C	GCMS, P & T or Direct Injection,	SCM10.06380	Yes	NJ	7/1/2004
Ethanol	SCM	Certified	SW-846 8260C	GCMS, P & T or Direct Injection,	SCM10.06390	Yes	NJ	7/1/2007
Ethyl acetate	SCM	Certified	SW-846 8260C	GCMS, P & T or Direct Injection,	SCM10.06400	Yes	NJ	7/1/2005
Ethyl methacrylate	SCM	Certified	SW-846 8260C	GCMS, P & T or Direct Injection,	SCM10.06410	Yes	NJ	7/1/2005
Ethylbenzene	SCM	Certified	SW-846 8260C	GCMS, P & T or Direct Injection,	SCM10.06420	Yes	NJ	7/1/2002
Ethyl-tert-butyl Ether [ETBE]	SCM	Certified	SW-846 8260C	GCMS, P & T or Direct Injection,	SCM10.06430	Yes	NJ	12/1/2006
Heptane (n-)	SCM	Certified	SW-846 8260C	GC/MS, P&T, or Direct Injection, Capillary	3CM10.05440	Yes	NJ	1/23/2012
Hexachiorobutadiene (1,3-)	SCM	Certified	SW-846 8260C	GCMS, P & T or Direct Injection, Capitaly	SCM10.06450	Yes	NJ	7/1/2002
Hexachioroethane	SCM	Certified	SW-846 8260C	GCMS, P & T or Direct Injection,	SCM10.06460	Yes	NJ	7/1/2002
Hexane (n-)	SCM	Certified	SW-846 8260C	GC/MS, P&T, or Direct Injection, Capillary	SCM10.06470	Yes	NJ	1/23/2012
Hexanone (2-)	SCM	Certified	SW-846 8260C	GCMS, P & T or Direct Injection,	SCM10.06480	Yes	NJ	7/1/2002
Iso-butyl alcohol	SCM	Certified	SW-846 8260C	GCMS, P & T or Direct Injection,	SCM10.06490	Yes	NJ	7/1/2005
Isopropyl acetate	SCM	Certified	SW-846 8260C	GCMS, P & T or Direct Injection,	SCM10.06510	Yes	NJ	9/8/2016
Isopropylbenzene	SCM	Certified	SW-846 8260C	GCMS, P & T or Direct Injection,	SCM10.06520	Yes	NJ	7/1/2005
Isopropyltoluene (4-)	SCM	Certified	SW-846 8260C	GCMS, P & T or Direct Injection,	SCM10.06530	Yes	NJ	7/1/2005
Methacrylonitrile	SCM	Certified	SW-846 8260C	GCMS, P & T or Direct Injection,	SCM10.06540	Yes	NJ	7/1/2005
Methyl acetate	SCM	Certified	SW-846 8260C	GC/MS, P&T, or Direct Injection, Capillary	SCM10.06550	Yes	NJ	12/2/2008
Methyl acrylate	SCM	Certified	SW-846 8260C	GC/MS, P & T or Direct Injection, Capitary	SCM10.06560	Yes	NJ	7/1/2007
Methyl lodide	SCM	Certified	SW-846 8260C	GCMS, P & T or Direct Injection,	SCM10.06560	Yes	NJ	7/1/2007
Methyl methacrylate	SCM	Certified	SW-846 8260C	GCMS, P & T or Direct Injection,	SCM10.06580	Yes	NJ	7/1/2005
Methyl tert-butyl ether	SCM	Certified	SW-846 8260C	GC/MS, P & T or Direct Injection,	SCM10.06590	Yes	NJ	7/1/2003
Methylcyclohexane	SCM	Certified	SW-846 8260C	GCMS, P&T or Direct Injection, Capillary	SCM10.06590	Yes	NJ	4/6/2010
Methylene chloride				GCMS, P & T or Direct Injection, Capitally				
	SCM	Certified	SW-845 8250C	Capillary	SCM10.06610	Yes	NJ	7/1/2002
(Dichloromethane) Naphthalene	SCM	Certified	SW-846 8260C	GCMS, P & T or Direct Injection,	SCM10.06640	Yes	NJ	7/1/2002
Nitropropane (2-)	SCM	Certified	SW-846 8260C	GCMS, P&T or Direct Injection, Capillary	SCM10.06640	Yes	NJ	12/2/2008
Pentachioroethane	SCM	Certified	SW-846 8260C	GCMS, P&T, or Direct Injection, Capitary	SCM10.06690	Yes	NJ	7/1/2005
Pentanone (4-methyl-2-) (MIBK)	SCM	Certified	SW-846 8260C	GC/MS, P & T or Direct Injection,	SCM10.06550	Yes	NJ	7/1/2003
	SCM		SW-846 8260C		SCM10.06710		NJ	7/1/2005
Propionitrile Propylbenzene (n-)	SCM	Certified	SW-846 8260C	GC/MS, P & T or Direct Injection,		Yes		7/1/2005
Sec-butylbenzene	SCM	Certified Certified	SW-846 8260C	GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	SCM10.06730 SCM10.06740	Yes Yes	NJ NJ	7/1/2005
	SCM		SW-846 8260C	GCMS, P & T or Direct Injection,	SCM10.06750			7/1/2003
Styrene	SCM	Certified Certified	SW-846 8260C		SCM10.06750	Yes	NJ NJ	12/1/2002
tert-Amylmethyl ether [TAME]	SCM	Certified	SW-846 8260C	GC/MS, P & T or Direct Injection, GC/MS, P & T or Direct Injection.	SCM10.06760	Yes	NJ	7/1/2006
Tert-butyl alcohol	SCM	Certified	SW-846 8260C	GCMS, P & T or Direct Injection,		Yes Yes		
Tert-buty/benzene					SCM10.06790		NJ	7/1/2005 7/1/2002
Tetrachioroethane (1,1,1,2-)	SCM	Certified	SW-846 8260C	GCMS, P & T or Direct Injection,	SCM10.06800	Yes	NJ NJ	
Tetrachioroethane (1,1,2,2-)	SCM	Certified	SW-846 8260C	GCMS, P & T or Direct Injection,	SCM10.06810	Yes	NJ	7/1/2002
Tetrachioroethane (1,1,2,2-) Tetrachioroethene	SCM SCM	Certified Certified	SW-846 8260C SW-846 8260C	GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	SCM10.06810 SCM10.06820	Yes Yes	NJ NJ	7/1/2002 7/1/2002
Tetrachioroethane (1,1,2,2-) Tetrachioroethene Tetrahydrofuran	SCM SCM SCM	Certified Certified Certified	SW-845 8250C SW-845 8250C SW-845 8250C	GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	SCM10.06810 SCM10.06820 SCM10.06830	Yes Yes Yes	NJ NJ	7/1/2002 7/1/2002 7/1/2005
Tetrachioroethane (1,1,2,2-) Tetrachioroethene Tetrahydrofuran Toluene	SCM SCM SCM	Certified Certified Certified Certified	SW-846 8250C SW-846 8250C SW-846 8250C SW-846 8250C	GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	SCM10.06810 SCM10.06820 SCM10.06830 SCM10.06840	Yes Yes Yes Yes	NJ NJ NJ	7/1/2002 7/1/2002 7/1/2005 7/1/2002
Tetrachioroethane (1,1,2,2-) Tetrachioroethene Tetrahydrofuran Toluene Trichioro (1,1,2-) trifluoroethane	SCM SCM SCM	Certified Certified Certified	SW-845 8250C SW-845 8250C SW-845 8250C	GCMS, P & T or Direct Injection, GCMS, P & T or Direct Injection,	SCM10.06810 SCM10.06820 SCM10.06830	Yes Yes Yes	NJ NJ	7/1/2002 7/1/2002 7/1/2005
Tetrachioroethane (1,1,2,2-) Tetrachioroethene Tetrahydrofuran Toluene Trichioro (1,1,2-) trifluoroethane (1,2,2-)	SCM SCM SCM SCM	Certified Certified Certified Certified Certified	SW-846 8260C SW-946 8260C SW-846 8260C SW-846 8260C SW-846 8260C	GCMS, P & T or Direct Injection, Capillary	SCM10.06810 SCM10.06820 SCM10.06830 SCM10.06840 SCM10.06860	Yes Yes Yes Yes	N3 N3 N3 N3 N3 N3	7/1/2002 7/1/2002 7/1/2005 7/1/2002 7/1/2004
Tetrachioroethane (1,1,2,2-) Tetrachioroethene Tetrahydrofuran Toluene Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,3-)	SCM SCM SCM SCM SCM	Certified Certified Certified Certified Certified Certified	SW-845 8250C SW-845 8250C SW-845 8250C SW-845 8250C SW-846 8250C SW-846 8250C	GCMS, P & T or Direct Injection, Capillary GCMS, P & T or Direct Injection,	9CM10.06810 9CM10.06820 9CM10.06830 9CM10.06840 9CM10.06860 9CM10.06870	Yes Yes Yes Yes Yes Yes	22 22 22 22 22 22 22 22 22 22 22 22 22	7/1/2002 7/1/2002 7/1/2005 7/1/2002 7/1/2004 7/1/2005
Tetrachioroethane (1,1,2,2-) Tetrachioroethene Tetrahydrofuran Toluene Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,3-) Trichiorobenzene (1,2,4-)	SCM SCM SCM SCM SCM SCM	Certified Certified Certified Certified Certified Certified Certified	SW-945 8250C SW-945 8250C SW-945 8250C SW-945 8250C SW-945 8250C SW-945 8250C SW-945 8250C	GCMMS, P & T or Direct Injection,	SCM10.06810 SCM10.06820 SCM10.06830 SCM10.06840 SCM10.06860 SCM10.06870 SCM10.06880	Yes Yes Yes Yes Yes Yes	2222 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7/1/2002 7/1/2002 7/1/2005 7/1/2002 7/1/2004 7/1/2005 7/1/2002
Tetrachioroethane (1,1,2,2-) Tetrachioroethene Tetrahydrofuran Toluene Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,3-) Trichiorobenzene (1,2,4-) Trichiorobenzene (1,1,1-)	SCM SCM SCM SCM SCM SCM SCM	Certified Certified Certified Certified Certified Certified Certified Certified	SW-846 8250C SW-846 8250C SW-846 8250C SW-846 8250C SW-846 8250C SW-846 8250C SW-846 8250C SW-846 8250C	GCMS, P & T or Direct Injection,	SCM10.06810 SCM10.06820 SCM10.06830 SCM10.06840 SCM10.06860 SCM10.06870 SCM10.06880 SCM10.06880 SCM10.06890	Yes	22 22 22 22 22 22 22 22 22 22 22 22 22	7/1/2002 7/1/2002 7/1/2005 7/1/2005 7/1/2002 7/1/2004 7/1/2005 7/1/2002 7/1/2002
Tetrachioroethane (1,1,2,2-) Tetrachioroethane Tetrahydrofuran Toluene Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,3-) Trichiorobenzene (1,2,4-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-)	SCM SCM SCM SCM SCM SCM SCM SCM	Certified	SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C SW-946 8250C	GCMS, P & T or Direct Injection,	SCM10.06810 SCM10.06820 SCM10.06830 SCM10.06840 SCM10.06860 SCM10.06870 SCM10.06870 SCM10.06870 SCM10.06890 SCM10.06990	Yes	222222222222222222222222222222222222222	7/1/2002 7/1/2002 7/1/2005 7/1/2005 7/1/2002 7/1/2004 7/1/2005 7/1/2002 7/1/2002 7/1/2002
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Tetrachioroethane (1,1,2,2-) Tetrachioroethene Tetrahydrofuran Toluene Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,3-) Trichiorobenzene (1,2,4-) Trichioroethane (1,1,1-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified	SW-946 8250C SW-946 8250C	GCMS, P & T or Direct Injection,	SCM10.06810 SCM10.06820 SCM10.06830 SCM10.06840 SCM10.06840 SCM10.06860 SCM10.06870 SCM10.06880 SCM10.06890 SCM10.06990 SCM10.06910 SCM10.06910 SCM10.06920	Yes	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7H/2002 7H/2002 7H/2005 7H/2002 7H/2004 7H/2005 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002 7H/2002
Tetrachioroethane (1,1,2,2-) Tetrachioroethane Tetrahydrofuran Toluene Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,3-) Trichiorobenzene (1,2,4-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioropopane (1,2,3-)	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified	SW-946 8250C SW-946 8250C	GCMMS, P & T or Direct Injection,	SCM10.06810 SCM10.06820 SCM10.06830 SCM10.06840 SCM10.06840 SCM10.06860 SCM10.06870 SCM10.06890 SCM10.06990 SCM10.06910 SCM10.06910 SCM10.06920 SCM10.06930	Yes	22 22 22 22 22 22 22 22 22 22 22 22 22	7/1/2002 7/1/2002 7/1/2005 7/1/2004 7/1/2004 7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002
Tetrachioroethane (1,1,2,2-) Tetrachioroethene Tetrahydrofuran Toluene Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichioroethane (1,2,3-) Trichioroethane (1,1,1-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethene Trichiorofuroromethane Trichioropropane (1,2,3-) Trimethylbenzene (1,2,3-) Trimethylbenzene (1,2,4-)	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified	SW-946 8250C	GCMS, P & T or Direct Injection,	SCM10.06810 SCM10.06820 SCM10.06830 SCM10.06840 SCM10.06860 SCM10.06870 SCM10.06890 SCM10.06890 SCM10.06900 SCM10.06900 SCM10.06900 SCM10.06900 SCM10.06930 SCM10.06930 SCM10.06930	Yes	22 22 22 22 22 22 22 22 22 22 22 22 22	7/1/2002 7/1/2005 7/1/2005 7/1/2005 7/1/2004 7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2004 7/1/2004 7/1/2004 7/1/2005
Tetrachioroethane (1,1,2,2-) Tetrachioroethane Tetrahydrofuran Toluene Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichioroethane (1,2,3-) Trichioroethane (1,2,4-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,2,2-) Trichioroethane Trichioropropane (1,2,3-) Trimetrylibenzene (1,2,3-) Trimetrylibenzene (1,3,5-)	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified	SW-946 8250C SW-946 8250C	GCMS, P & T or Direct Injection,	SCM10.06810 SCM10.06820 SCM10.06830 SCM10.06840 SCM10.06840 SCM10.06860 SCM10.06870 SCM10.06890 SCM10.06990 SCM10.06910 SCM10.06910 SCM10.06920 SCM10.06930	Yes	22 22 22 22 22 22 22 22 22 22 22 22 22	7/1/2002 7/1/2002 7/1/2005 7/1/2004 7/1/2004 7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002
Tetrachioroethane (1,1,2,2-) Tetrachioroethene Tetrahydrofuran Toluene Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichioroethane (1,2,3-) Trichioroethane (1,2,4-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane Trichioropropane (1,2,3-) Trimethylbenzene (1,2,3-) Trimethylbenzene (1,3,5-) Trimethylbenzene (1,3,5-) Trimethylbenzene (1,3,5-) Trimethylpenzene (2,4-)	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified	SW-946 \$250C SW-946 \$250C	GCMS, P & T or Direct Injection,	SCM10.05910 SCM10.05820 SCM10.05830 SCM10.05840 SCM10.05840 SCM10.05870 SCM10.05870 SCM10.05870 SCM10.05890 SCM10.05900	Yes	22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7/1/2002 7/1/2005 7/1/2005 7/1/2005 7/1/2004 7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005 7/1/2005 7/1/2005
Tetrachioroethane (1,1,2,2-) Tetrachioroethane Tetrahydrofuran Toluene Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichioroethane (1,2,3-) Trichioroethane (1,2,4-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane Trichiorothane (1,2,2-) Trichioroethane Trichiorothane Trimethylpenaene (1,2,4-) Trimethylpenaene (1,3,5-) Trimethylpenaene (2,2,4-) Viryl acetale	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified	SW-946 8250C	GCMS, P & T or Direct Injection, GCMS, Extract or Dir Inj. Capillary	SCM10.05810 SCM10.05820 SCM10.05830 SCM10.05830 SCM10.05840 SCM10.05860 SCM10.05870 SCM10.05890 SCM10.05900	Yes	222222222222222222222222222222222222222	7/1/2002 7/1/2005 7/1/2005 7/1/2004 7/1/2005 7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005 10/15/2010
Tetrachioroethane (1,1,2,2-) Tetrachioroethane Tetrahydrofuran Toluene Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichioroethane (1,2,4-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,2,2-) Trichioroethane (1,2,2-) Trichioroethane Trichioropopane (1,2,2-) Trimetrylibenzene (1,2,4-) Trimetrylibenzene (1,2,4-) Trimetrylibenzene (1,2,4-) Trimetrylibenzene (1,2,4-) Vinyi acetate Vinyi chioride	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified	SW-946 8250C	GCMMS, P & T or Direct Injection,	SCM10.06910 SCM10.06820 SCM10.06830 SCM10.06840 SCM10.06860 SCM10.06860 SCM10.06890 SCM10.06890 SCM10.06890 SCM10.06990 SCM10.06990 SCM10.06990 SCM10.06990 SCM10.06950 SCM10.06950 SCM10.06960 SCM10.06990 SCM10.06990	Yes	22 22 22 22 22 22 22 22 22 22 22 22 22	7/1/2002 7/1/2003 7/1/2005 7/1/2004 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2005 7/1/2005 10/15/2010 7/1/2005
Tetrachioroethane (1,1,2,2-) Tetrachioroethene Tetrahydrofuran Toluene Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichioroethane (1,2,3-) Trichioroethane (1,2,4-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethene Trichioroethene Trichiorothene Trichioropane (1,2,3-) Trimethylbenzene (1,2,3-) Trimethylbenzene (1,3,5-) Trimethylbenzene (1,3,5-) Trimethylbenzene (2,3,4-) Virnyl acetate Virnyl choride Xylene (m-)	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified	SW-946 8250C	GCMS, P. & T or Direct Injection,	SCM10.08810 SCM10.08820 SCM10.08830 SCM10.08830 SCM10.08840 SCM10.08840 SCM10.08870 SCM10.08880 SCM10.08880 SCM10.08980	Yes	22 22 23 23 23 23 23 23 23 23 23 23 23 2	7/1/2002 7/1/2005 7/1/2005 7/1/2004 7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2004 7/1/2005 10/15/2010 7/1/2004 7/1/2005
Tetrachioroethane (1,1,2,2-) Tetrachioroethane Tetrahydrofuran Toluene Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,3-) Trichiorobenzene (1,2,4-) Trichiorobenzene (1,2,4-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,2,2-) Trichioroethane Trichioropropane (1,2,3-) Trimethylibenzene (1,2,4-) Trimethylibenzene (1,2,4-) Trimethylibenzene (1,2,4-) Virgi acetta Virgi chioride Xylene (m-) Xylene (n-)	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified	SW-946 \$250C SW-946 \$250C	GCMMS, P & T or Direct Injection,	SCM10.08810 SCM10.08820 SCM10.08830 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08800 SCM10.08800 SCM10.08800 SCM10.08900	Yes	83 82 82 82 82 82 82 82 82 82 82 82 82 82	7/1/2002 7/1/2002 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2004 7/1/2005 7/1/2004 7/1/2004 7/1/2004 7/1/2004 7/1/2004
Tetrachioroethane (1,1,2,2-) Tetrachioroethane Tetrahydrofuran Toluene Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichioroethane (1,2,4-) Trichioroethane (1,2,4-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,2,3-) Trineinylbenaene (1,2,4-) Trimethylbenaene (1,2,4-) Trimethylbenaene (1,2,4-) Trimethylbenaene (2,2,4-) Vinyl acetate Vinyl choloride Xylene (m-) Xylene (m-) Xylene (p-)	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified	SW-946 \$250C	GCMS, P & T or Direct Injection,	SCM10.06810 SCM10.06820 SCM10.06830 SCM10.06830 SCM10.06840 SCM10.06840 SCM10.06840 SCM10.06840 SCM10.06800 SCM10.06800 SCM10.06800 SCM10.06900	Yes	22 22 22 22 22 22 22 22 22 22 22 22 22	711/2002 711/2002 711/2005 711/2005 711/2005 711/2005 711/2002 711/2002 711/2002 711/2002 711/2002 711/2004 711/2005 711/2005 711/2005 711/2005 711/2005 711/2005 711/2005 711/2005 711/2005 711/2005
Tetrachioroethane (1,1,2,2-) Tetrachioroethane Tetrahydrofuran Toluene Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichioroethane (1,2,3-) Trichioroethane (1,2,3-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,2,3-) Trimetryloename (1,2,3-)	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified	SW-946 8250C	GCMS, P & T or Direct Injection,	SCM10.08810 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08890 SCM10.08980	Yes	N2 N3	711/2002 711/2005 711/2005 711/2005 711/2004 711/2002 711/2002 711/2002 711/2002 711/2004 711/2005 711/2005 711/2005 711/2005 711/2005 711/2005 711/2005 711/2005 711/2005 711/2005 711/2005
Tetrachioroethane (1,1,2,2-) Tetrachioroethane Tetrahydrofuran Toluene Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichioroethane (1,2,4-) Trichioroethane (1,2,4-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,2,3-) Trineinylbenaene (1,2,4-) Trimethylbenaene (1,2,4-) Trimethylbenaene (1,2,4-) Trimethylbenaene (2,2,4-) Vinyl acetate Vinyl choloride Xylene (m-) Xylene (m-) Xylene (p-)	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified	SW-946 \$250C	GCMS, P & T or Direct Injection, GCMS, M, P & T or Direct Injection,	SCM10.06810 SCM10.06820 SCM10.06830 SCM10.06830 SCM10.06840 SCM10.06840 SCM10.06840 SCM10.06840 SCM10.06800 SCM10.06800 SCM10.06800 SCM10.06900	Yes	NJ N	7H/2002 7H/2002 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2002 7H/2002 7H/2002 7H/2002 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005 7H/2005
Tetrachioroethane (1,1,2,2-) Tetrachioroethane Tetrahydrofuran Toluene Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichioroethane (1,2,4-) Trichioroethane (1,2,4-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,2,2-) Trichioroethane (1,2,2-) Trimetrylbenzene (1,2,3-) Trimetrylbenzene (1,2,3-) Trimetrylbenzene (1,2,4-) Vinyi acetate Vinyi chioride Xylene (n-) Xylene (1,4-)	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified	SW-946 8250C	GCMS, P & T or Direct Injection,	SCM10.08810 SCM10.08820 SCM10.08830 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08870 SCM10.08870 SCM10.08870 SCM10.08870 SCM10.08870 SCM10.08970	Yes	N2 N	7/1/2002 7/1/2002 7/1/2005 7/1/2005 7/1/2004 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2004 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005 7/1/2005
Tetrachioroethane (1,1,2,2-) Tetrachioroethene Tetrahydrofuran Toluene Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,3-) Trichiorobenzene (1,2,4-) Trichioroethane (1,1,1-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane Trichiorofuncementane Trichioropropane (1,2,3-) Trimethylipenzene (1,2,3-) Trimethylipenzene (1,2,4-) Trimethylipenzene (1,3,5-)	SCM SCM SCM SCM SCM SCM SCM SCM SCM SCM	Certified	SW-946 8250C	GOMB, P & T or Direct Injection, GCMB, EVALUATION, P & T or Direct Injection, GCMB, EVALUATION, P & T or Direct Injection, GCMB, EVALUATION OF DIRECT, Injection, GCMB, EVALUATION, P & T or Direct INJECTION, GCMB, EVALUATION, P & T OR DIR	SCM10.08810 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08890 SCM10.08890 SCM10.08890 SCM10.08990 SCM10.08900 SCM10.08900 SCM10.07900 SCM10.07900 SCM10.07903	Yes	N2 N	711/2002 711/2005 711/2005 711/2005 711/2004 711/2004 711/2002 711/2002 711/2002 711/2002 711/2005 1015/2010 711/2005
Tetrachioroethane (1,1,2,2-) Tetrachioroethane Tetrahydrofuran Toluene Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichioroethane (1,2,4-) Trichioroethane (1,2,4-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,2,2-) Trichioroethane (1,2,3-) Trimethylbenzene (1,2,3-) Trimethylbenzene (1,2,4-) Trimethylbenzene (1,4-) Aceraphthene Aceraphthylene Acetophenone	SCM   SCM	Certified	SW-946 \$250C	GOMIS, P. & T or Direct Injection, GCMIS, Extract or Direct, Injection,	SCM10.08810 SCM10.08820 SCM10.08830 SCM10.08830 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08800 SCM10.08800 SCM10.08800 SCM10.08900 SCM10.07010 SCM10.07010 SCM10.07010 SCM10.07010 SCM10.07010 SCM10.07035 SCM10.07035	Yes	N2 N	71/1/2002 71/1/2002 71/1/2005 71/1/2005 71/1/2005 71/1/2005 71/1/2002 71/1/2002 71/1/2002 71/1/2002 71/1/2005
Tetrachioroethane (1,1,2,2-) Tetrachioroethane Tetrahydrofuran Toluene Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichioroethane (1,2,4-) Trichioroethane (1,2,4-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,2,2-) Trichioroethane (1,2,3-) Trimethyloenane (1,2,3-) Trimethyloenane (1,2,4-) Trimethyloenane (1,2,4-) Trimethyloenane (1,2,4-) Viryl scatta	SCM   SCM	Certified	SW-946 8250C	GCMS, P & T or Direct Injection, GCMS, Extract or Dir Inj. Capillary GCMS, Extract or Dir Inj. Capillary GCMS, Extract or Dir Inj. Capillary	SCM10.08810 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08890 SCM10.08900 SCM10.07000 SCM10.07000 SCM10.07000 SCM10.07000 SCM10.07000	Yes	N2 N	711/2002 711/2002 711/2005 711/2005 711/2005 711/2002 711/2002 711/2002 711/2002 711/2002 711/2002 711/2002 711/2005
Tetrachioroethane (1,1,2,2-) Tetrachioroethane Tetrahydrofuran Toluene Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichioroethane (1,2,3-) Trichioroethane (1,2,2-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,2,2-) Trichioroethane Trichiorothane (1,2,3-) Trimethylibenazene (1,2,4-) Trimethylibenazene (1,2,4-) Trimethylipenazene (1,2,5-)	SCM   SCM	Certified	SW-946 5250C	GCMS, P & T or Direct Injection, GCMS, Extract or Dir Inj. Capillary	SCM10.08810 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08890 SCM10.08890 SCM10.08990	Yes	N2 N	711/2002 711/2003 711/2003 711/2003 711/2004 711/2003 711/2002 711/2002 711/2002 711/2004 711/2004 711/2005 711/2004 711/2005
Tetrachioroethane (1,1,2,2-) Tetrachioroethane Tetrahydrofuran Toluene Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichioroethane (1,2,4-) Trichioroethane (1,2,4-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,2,2-) Trichioroethane (1,2,2-) Trichioroethane Trichioropopane (1,2,2-) Trimetrylibenzene (1,2,3-) Trimetrylibenzene (1,2,4-) Vinyi acetate Vinyi chioride Xylene (n-) Xylene (n-) Xylene (n-) Xylene (p-)	SCM   SCM	Certified	SW-946 8250C	GCMS, P & T or Direct Injection, GCMS, Extract or Dir Inj. Capillary	SCM10.08810 SCM10.08820 SCM10.08830 SCM10.08830 SCM10.08840 SCM10.08840 SCM10.08870 SCM10.08870 SCM10.08870 SCM10.08980 SCM10.08980 SCM10.08980 SCM10.08990	Yes	N2 N	7/1/2002 7/1/2002 7/1/2005 7/1/2005 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2002 7/1/2004 7/1/2005
Tetrachioroethane (1,1,2,2-) Tetrachioroethane Tetrahydrofuran Toluene Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichioroethane (1,2,3-) Trichioroethane (1,2,3-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,2,3-) Trichioroethane (1,2,3-) Trimethylbenzene (1,2,3-) Trimethylbenzen	SCM   SCM	Certified	SW-946 \$250C	GCMS, P & T or Direct Injection, GCMS, Extract or Dir Inj. Capillary	SCM10 D6810 SCM10 D6810 SCM10 D6830 SCM10 D6840 SCM10 D6840 SCM10 D6840 SCM10 D6870 SCM10 D6890 SCM10 D6890 SCM10 D6890 SCM10 D6890 SCM10 D6990 SCM10 D7000	Yes	N2 N	711/2002 711/2005 711/2005 711/2005 711/2004 711/2005 711/2002 711/2002 711/2002 711/2002 711/2002 711/2004 711/2005
Tetrachioroethane (1,1,2,2-) Tetrachioroethane Tetrahydrofuran Toluene Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,4-) Trichiorobenzene (1,2,4-) Trichiorobenzene (1,2,4-) Trichiorobenzene (1,2,2-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,2,2-) Trichioroethane (1,2,2-) Trichioroethane Trichiorofuoromethane Trichiorofuoromethane Trichiorofuoromethane Trichiorofuoromethane Trichiorofuoromethane Trichiorofuoromethane Trichiorofuoromethane Trichiorofuoromethane Trichiorofuoromethane Trimetrylipenzene (1,2,3-) Trimetrylipenzene (1,2,3-) Trimetrylipenzene (1,2,5-) Tri	SCM   SCM	Certified	SW-946 \$250C	GOMIS, P. & T or Direct Injection, GCMIS, Extract or Dir Inj. Capillary	SCM10.08910 SCM10.08830 SCM10.08830 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08900	Yes	N2 N	711/2002 711/2002 711/2005 711/2005 711/2002 711/2002 711/2002 711/2002 711/2002 711/2002 711/2002 711/2002 711/2002 711/2003 711/2004 711/2005
Tetrachioroethane (1,1,2,2-) Tetrachioroethene Tetrahydrofuran Toluene Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,3-) Trichiorobenzene (1,2,3-) Trichiorobenzene (1,1,1-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane Trichiorofuncomethane Tr	SCM   SCM	Certified	\$\text{SW-946} \$250C\$ \$\text{SW-946} \$270D\$	GOMB, P & T or Direct Injection, GCMB, Extract or Dir Inj. Capillary	SCM10.08810 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08890 SCM10.08890 SCM10.08890 SCM10.08890 SCM10.08890 SCM10.08990 SCM10.08990 SCM10.08990 SCM10.08990 SCM10.08900 SCM10.08990	Yes	N2 N	711/2002 711/2005 711/2005 711/2005 711/2005 711/2004 711/2005 711/2002 711/2002 711/2002 711/2002 711/2005
Tetrachioroethane (1,1,2,2-) Tetrachioroethane Tetrahydrofuran Toluene Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichioroethane (1,2,3-) Trichioroethane (1,2,2-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,2,2-) Trichioroethane (1,2,2-) Trichioroethane Trichiorotroemethane Trichioropropane (1,2,3-) Trimetrylipenazene (1,2,3-) Trimetrylipenazene (1,2,3-) Trimetrylipenazene (1,2,3-) Trimetrylipenazene (1,2,3-) Trimetrylipenazene (1,3,5-) Trimetrylipenazene (1,3,5-) Trimetrylipenazene (1,3,5-) Trimetrylipenazene (1,3,5-) Trimetrylipenazene (1,3,5-) Trimetrylipenazene (1,3,5-) Trimetrylipenazene (1,2,4-) Xylene (p-) Xylene (p-) Xylene (p-) Xylene (p-) Xylene (p-) Azenaphthene Acenaphthylene Acetophenone Acetophenone Acetophenone Acetophenone (2-) Anline Arninobiohenyl (4-) Anline Arminele	SCM   SCM	Certified	SW-946 \$250C	GOMS, P & T or Direct Injection, GCMS, Extract or Dir Inj. Capillary	SCM10.08810 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08890 SCM10.08980	Yes	N2 N	711/2002 711/2003 711/2003 711/2003 711/2003 711/2004 711/2002 711/2004 711/2004 711/2004 711/2004 711/2005 711/2004 711/2005
Tetrachioroethane (1,1,2,2-) Tetrachioroethane Tetrahydrofuran Toluene Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichioroethane (1,2,4-) Trichioroethane (1,1,1-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,2,2-) Trichioroethane (1,2,2-) Trimetryloenane (1,2,3-) Trimetryloenane (1,3,3-) Trimetryloenane (1,3,3-) Trimetryloenane (1,3,3-) Trimetryloenane (1,3,3-) Trimetryloenane (1,3,3-) Trimetryloenane (1,3,3-) Trimet	SCM   SCM	Certified	SW-946 8250C	GCMS, P & T or Direct Injection, GCMS, Extract or Dir Inj. Capillary	SCM10.08810 SCM10.08820 SCM10.08830 SCM10.08830 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08870 SCM10.08870 SCM10.08870 SCM10.08870 SCM10.08970	Yes	N2 N	711/2002 711/2002 711/2005 711/2005 711/2005 711/2002 711/2002 711/2002 711/2002 711/2002 711/2002 711/2003 711/2004 711/2005
Tetrachioroethane (1,1,2,2-) Tetrachioroethane Tetrahydrofuran Toluene Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichioroethane (1,2,3-) Trichioroethane (1,2,3-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,2,3-) Trinethylibenzene (1,2,3-) Trimethylibenzene (1,2,3-) Trimethylibenzene (1,2,3-) Trimethylibenzene (1,2,3-) Trimethylibenzene (1,2,3-) Trimethylibenzene (1,2,3-) Trimethylibenzene (1,3,5-) Trimethylibenzene (1,3,5-) Trimethylibenzene (1,2,3-) Aughan (1,3-) Acenaphthylene Acenaphthylene Acenaphthylene Acetysmindriourene (2-) Anline Aritarscene Aramite Aramite Benzaidehyde	SCM   SCM	Certified	SW-946 S250C	GCMS, P & T or Direct Injection, GCMS, Extract or Dir Inj. Capillary	SCM10.08810 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08890 SCM10.08980 SCM10.09980	Yes	N2 N	711/2002 711/2005 711/2005 711/2005 711/2005 711/2004 711/2005 711/2002 711/2002 711/2002 711/2002 711/2005
Tetrachioroethane (1,1,2,2-) Tetrachioroethane Tetrahydrofuran Toluene Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichioroethane (1,2,4-) Trichioroethane (1,2,4-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,2,2-) Trichioroethane (1,2,3-) Trimetryloenane (1,2,3-) Trimetryloenane (1,2,4-) Viryl scatte (1,2,4-) Alline (1,4-) Anthracene Arthracene Aramite Benzaidehyde Benzaidehyde Benzaidehyde	SCM   SCM	Certified	SW-946 \$250C	GOMIS, P. & T or Direct Injection, GCMIS, Extract or Dir Inj., Capillary	SCM10.08810 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08890 SCM10.08900	Yes	N2 N	711/2002 711/2003 711/2003 711/2005 711/2005 711/2005 711/2002 711/2002 711/2002 711/2002 711/2002 711/2002 711/2002 711/2003 711/2004 711/2005
Tetrachioroethane (1,1,2,2-) Tetrachioroethane Tetrahydrofuran Toluene Trichloro (1,1,2-) trifluoroethane (1,2,2-) Trichlorobenzene (1,2,3-) Trichlorobenzene (1,2,4-) Trichlorobenzene (1,2,1-) Trichlorobenzene (1,1,1-) Trichloroethane (1,1,2-) Trichloroethane (1,1,2-) Trichloroethane (1,1,2-) Trichloroethane (1,2,3-) Trichloroethane Trichlorothoromethane Trichlorothoromet	SCM   SCM	Certified	\$W-946 \$250C \$W-946 \$270D \$W-946 \$270D	GOMB, P & T or Direct Injection, GCMB, Extract or Dir Inj. Capillary	SCM10.08810 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08890 SCM10.08890 SCM10.08890 SCM10.08890 SCM10.08890 SCM10.08990 SCM10.08990 SCM10.08990 SCM10.08990 SCM10.08910 SCM10.08990	Yes	N2 N	711/2002 711/2005 711/2005 711/2005 711/2005 711/2004 711/2005 711/2002 711/2002 711/2002 711/2002 711/2005
Tetrachioroethane (1,1,2,2-) Tetrachioroethane Tetrahydrofuran Toluene Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichioroethane (1,2,3-) Trichioroethane (1,2,2-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,2,2-) Trichioroethane (1,2,2-) Trichioroethane Trichioropropane (1,2,3-) Trimetrylipenane (1,2,3-) Trimetrylipenane (1,2,4-) Trimetrylipenane (2,2,4-) Virgi accitation Virgi acci	SCM   SCM	Certified	SW-946 S250C	GOMS, P & T or Direct Injection, GCMS, Extract or Dir Inj. Capillary	SCM10.08910 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08890 SCM10.08900 SCM10.09900	Yes	N2 N	7/1/2002 7/1/2003 7/1/2003 7/1/2004 7/1/2005 7/1/2004 7/1/2002 7/1/2002 7/1/2002 7/1/2004 7/1/2002 7/1/2004 7/1/2004 7/1/2005 7/1/2004 7/1/2005 7/1/2005 7/1/2005 7/1/2006 7/1/2007 7/1/2008
Tetrachioroethane (1,1,2,2-) Tetrachioroethane Tetrahydrofuran Toluene Tetrahydrofuran Toluene Trichioroethane (1,2,2-) Trichioroethane (1,2,3-) Trichioroethane (1,2,4-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane Trichioropropane (1,2,3-) Trinethylbenazene (1,2,3-) Trinethylbenazene (1,2,4-) Trichioroethane Trichioroet	SCM   SCM	Certified	\$\text{SM-946} \$250C\$ \$\text{SM-946} \$250D\$ \$\text{SM-946} \$270D\$	GOMB, P & T or Direct Injection, GCMB, Extract or Dir Inj. Capillary	SCM10.08910 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08890 SCM10.08900 SCM10.089300	Yes	N2 N	711/2002 711/2005 711/2005 711/2005 711/2005 711/2004 711/2005 711/2002 711/2002 711/2002 711/2002 711/2005
Tetrachioroethane (1,1,2,2) Tetrachioroethane (1,1,2,2) Tetrachioroethane Tetrachioroethane Tetrachioroethane Toluene Trichioroethane (1,2,3-) Trichioroethane (1,2,4-) Trichioroethane (1,2,4-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane Trichioromomethane Trichioromomethane Trichioromomethane Trichioropropane (1,3,2-) Trimethylpeniane (2,2,4-) Trimethylpeniane (2,2,4-) Trimethylpeniane (2,2,4-) Trimethylpeniane (2,2,4-) Trimethylpeniane (1,3,5-) Trimethylpeniane (1,3,5-) Trimethylpeniane (1,3,5-) Trimethylpeniane (1,2,4-) Trimethylpeniane (2,2,4-) Trimethylpeniane (2,2,4-) Trimethylpeniane (2,2,4-) Trimethylpeniane (2,3,5-) Trimethylpeniane (2,3,5-) Trimethylpeniane (1,3,5-) Trimethylpeniane (1,3,5-) Trimethylpeniane (1,3,5-) Trimethylpeniane (1,3,5-) Trichioroethane (1,3,5-) Trichioroeth	SCM   SCM	Certified	\$W-946 \$250C \$W-946 \$250D \$W-946 \$270D \$W-946 \$270D	GOMS, P & T or Direct Injection, GCMS, Extract or Dir Inj. Capillary	SCM10.08810 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08890 SCM10.08900	Yes	N2 N	711/2002 711/2003 711/2003 711/2003 711/2003 711/2004 711/2003 711/2002 711/2002 711/2002 711/2004 711/2003 711/2004 711/2005 711/2004 711/2005
Tetrachioroethane (1,1,2,2-) Tetrachioroethane Tetrahydrofuran Toluene Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichioroethane (1,2,4-) Trichioroethane (1,2,4-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,2,2-) Trichioroethane Trichiorofuoromethane Trimetrylipenazene (1,2,3-) Trimetrylipenazene (1,3,5-) Trimetrylipenazene (1,2,5-) Trimetrylipenazen	SCM   SCM	Certified	SW-946 \$250C	GOMIS, P. & T or Direct Injection, GCMIS, Extract or Dir Inj. Capillary	SCM10.08910 SCM10.08830 SCM10.08830 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08900	Yes	N2 N	711/2002 711/2002 711/2003 711/2005 711/2005 711/2005 711/2002 711/2002 711/2002 711/2002 711/2002 711/2002 711/2002 711/2002 711/2002 711/2002 711/2003
Tetrachioroethane (1,1,2,2) Tetrachioroethane (1,1,2,2) Tetrachioroethane Tetrahydrouran Toluene Trichloro (1,1,2) Influoroethane (1,2,2) Trichloroethane (1,1,2) Trichloroethane Trichloropropane (1,2,3-) Trichloroethane Trichloropropane (1,3,3-) Trimethylbenzene (1,3,3-) Trimethylbenzene (1,3,3-) Trimethylpenzene (1,2,4-) Nylene (0-) Nylene (0-	SCM   SCM	Certified	\$W-946 \$250C \$W-946 \$250D \$W-946 \$270D \$W-946 \$270D	GCMS, P & T or Direct Injection, GCMS, Extract or Dir Inj. Capillary	SCM10.08810 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08890 SCM10.08890 SCM10.08990	Yes	N2 N	711/2002 711/2005 711/2005 711/2005 711/2005 711/2004 711/2002 711/2002 711/2002 711/2002 711/2002 711/2002 711/2003 711/2005
Tetrachioroethane (1,1,2,2-) Tetrachioroethane (1,1,2,2-) Tetrachioroethane Tetrahydoruna Toluene Tetrahydoruna Toluene Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichioroethane (1,2,4-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane Trichiorogropane (1,2,3-) Trimethylbenane (1,2,4-) Trichioroethane (1,2,4-) Trichioroethane (1,2,4-) Trichioroethane (1,2,4-) Trichioroethane (1,2,4-) Trichioroethane (1,2,4-) Trimethylbenane	SCM   SCM	certified	\$W-946 \$250C \$W-946 \$270D \$W-946 \$270D	GCMS, P & T or Direct Injection, GCMS, Extract or Dir Inj. Capillary	SCM10.08810 SCM10.08840 SCM10.08980 SCM10.09980	Yes	N2 N	711/2002 711/2003 711/2003 711/2003 711/2003 711/2003 711/2003 711/2003 711/2003 711/2004 711/2004 711/2004 711/2005 711/2004 711/2005
Tetrachioroethane (1,1,2,2-) Tetrachioroethane Tetrahydrofuran Toluene Trichloro (1,1,2-) trifluoroethane (1,2,2-) Trichloroethane (1,2,3-) Trichloroethane (1,2,3-) Trichloroethane (1,1,1-) Trichloroethane (1,1,1-) Trichloroethane (1,1,1-) Trichloroethane (1,1,2-) Trichloroethane Trich	SCM   SCM	Certified	\$\text{SM-946} \$250C\$ \$\text{SM-946} \$270D\$	GOMB, P & T or Direct Injection, GCMB, Extract or Dir Inj. Capillary	SCM10.08910 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08890 SCM10.08890 SCM10.08890 SCM10.08990	Yes	N2 N	711/2002 711/2005 711/2005 711/2005 711/2005 711/2005 711/2002 711/2002 711/2002 711/2002 711/2002 711/2005
Tetrachioroethane (1,1,2,2-) Tetrachioroethane Tetrahydrofuran Toluene Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichioroethane (1,2,3-) Trichioroethane (1,2,2-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane (1,2,2-) Trichioroethane Trichiorothane (1,2,2-) Trichioroethane Trichiorothane Trimetrylipename (1,2,4-) Trimetrylipename (2,2,4-) Viryl chioride Xylene (or) Xylene	SCM   SCM	Certified	\$\text{SM-946} \$250C\$ \$\text{SM-946} \$270D\$	GCMS, P & T or Direct Injection, GCMS, Extract or Dir Inj. Capillary	SCM10.08910 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08890 SCM10.08990	Yes	N2 N	711/2002 711/2002 711/2002 711/2002 711/2002 711/2002 711/2002 711/2002 711/2002 711/2002 711/2002 711/2002 711/2004 711/2005 711/2004 711/2005
Tetrachioroethane (1,1,2,2-) Tetrachioroethene Tetrahydrofuran Toluene Trichioro (1,1,2-) trifluoroethane (1,2,2-) Trichiorobenzene (1,2,3-) Trichiorobenzene (1,2,3-) Trichiorobenzene (1,1,1-) Trichioroethane (1,1,1-) Trichioroethane (1,1,2-) Trichioroethane (1,1,2-) Trichioroethane Trichiorofuncementane Trichiorofuncementane Trichiorofuncementane Trichioropropane (1,2,3-) Trimethylipenzene (2,3-) Trimethylipenzene (2,3-) Trimethylipenzene (2-) Xylene (1,3-) Xyl	SCM   SCM	Certified	\$\text{SM-946} \$250C\$ \$\text{SM-946} \$270D\$	GCMS, P. & T or Direct Injection, GCMS, Extract or Dir Inj. Capillary	SCM10.08810 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08840 SCM10.08890 SCM10.08890 SCM10.08890 SCM10.08890 SCM10.08990 SCM10.09990	Yes	N	711/2002 711/2005 711/2005 711/2005 711/2005 711/2005 711/2005 711/2005 711/2002 711/2002 711/2002 711/2002 711/2003 711/2005



Bis (2-ethylhexyl) phthalate	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj., Capillary	3CM10.09550	Yes	NJ	7/1/2002
Bromophenyl-phenyl ether (4-)	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.09560	Yes	NJ	7/1/2002
Butylbenzylphthalate	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj. Capillary	SCM10.09570	Yes	NJ	7/1/2002
Caprolactam	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.09580	Yes	NJ	11/17/2009
Carbazole	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.09590	Yes	NJ	7/1/2002
Chioroanline (4-)	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.09630	Yes	NJ	7/1/2002
Chiorobenzilate	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.09640	Yes	NJ	7/1/2005
Chioronaphthalene (2-)	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.09660	Yes	NJ	7/1/2002
Chiorophenol (2-)	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.09670	Yes	NJ	7/1/2002
Chlorophenyl-phenyl ether (4-)	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.09680	Yes	NJ	7/1/2002
Chrysene	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.09690	Yes	NJ	7/1/2002
Decane (n-)	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.09730	Yes	NJ	10/15/2010
	SCM	Certified	SW-846 8270D		SCM10.09750	Yes	NJ	12/1/2006
Dialiate (cis)	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.09750		NJ	12/1/2006
Dialiate (trans)				GC/MS, Extract or Dir Inj, Capillary		Yes		
Dibenz(a,h)acridine	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.09770	Yes	NJ	12/1/2006
Dibenzo(a,h)anthracene	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.09800	Yes	NJ	7/1/2002
Dibenzofuran	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.09840	Yes	NJ	7/1/2002
Dichlorobenzene (1,2-)	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.09850	Yes	NJ	7/1/2004
Dichlorobenzene (1,3-)	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.09860	Yes	NJ	7/1/2004
Dichloroberizene (1,4-)	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.09870	Yes	NJ	7/1/2002
Dichiorobenzidine (3,3%)	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.09880	Yes	NJ	7/1/2002
Dichiorophenoi (2,4-)	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj., Capillary	SCM10.09890	Yes	NJ	7/1/2002
Dichiorophenol (2,6-)	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.09900	Yes	NJ	12/1/2006
Diethyl phthalate	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.09920	Yes	NJ	7/1/2002
Dimethoate	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.09930	Yes	NJ	12/1/2006
Dimethyl phthalate	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.09950	Yes	NJ	7/1/2002
Dimethylaminoazobenzene	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.09960	Yes	NJ	12/1/2006
Directification (1,12	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10010	Yes	NJ	12/1/2006
Dimethylphenol (2,4-)	SCM	Certified	SW-846 8270D	GCMS, Extract or Dir Inj. Capillary	SCM10.10010	Yes	NJ	7/1/2002
Di-n-butyl phthalate	SCM	Certified	SW-846 8270D		SCM10.10020	Yes	NJ	7/1/2002
	SCM			GCMS, Extract or Dir Inj, Capillary GCMS, Extract or Dir Inj, Capillary		Yes		
Dinitrobenzene (1,3-)	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10040	Yes	NJ	12/1/2006
Dinitrophenol (2,4-)	SCM	Certified	SW-846 8270D	GCMS, Extract or Dir Inj, Capillary	SCM10.10060	Yes	NJ	7/1/2002
Dinitrophenol (2-methyl-4,6-)		Certified	SW-846 8270D		SCM10.10070		NJ	7/1/2002
Dinitrotoluene (2,4-)	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10080	Yes	NJ	7/1/2002
Dinitrotoluene (2,6-)	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10090	Yes	NJ	7/1/2002
Di-n-octyl phthalate	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10100	Yes	NJ	7/1/2002
Dinoseb	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10110	Yes	NJ	7/1/2005
Diphenylamine	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj., Capillary	SCM10.10120	Yes	NJ	7/1/2002
Diphenylhydrazine (1,2-)	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj., Capillary	SCM10.10130	Yes	NJ	12/1/2006
Disuffoton	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10140	Yes	NJ	7/1/2005
Famphur	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10220	Yes	NJ	9/8/2016
Fluoranthene	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj., Capillary	SCM10.10230	Yes	NJ	7/1/2002
Fluorene	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10240	Yes	NJ	7/1/2002
Hexachiorobenzene	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj. Capillary	SCM10.10270	Yes	NJ	7/1/2002
Hexachiorobutadiene (1,3-)	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj. Capillary	SCM10.10280	Yes	NJ	7/1/2002
Hexachiorocyclopentadiene	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10290	Yes	NJ	7/1/2002
Hexachioroethane	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10300	Yes	NJ	7/1/2002
Hexachioropropene	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10320	Yes	NJ	7/1/2002
Hydroquinone	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10330	Yes	NJ	2/4/2010
Indene	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10340	Yes	NJ	9/8/2016
	SCM	Certified	SW-846 8270D		SCM10.10340	Yes	NJ	7/1/2002
Indeno(1,2,3-cd)pyrene				GC/MS, Extract or Dir Inj, Capillary				
Isodrin	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10360	Yes	NJ	7/1/2005
Isophorone	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10370	Yes	NJ	7/1/2002
Isosafroie (cis-)	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10380	Yes	NJ	12/1/2006
Isosafrole (trans-)	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10390	Yes	NJ	12/1/2006
Kepone	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10400	Yes	NJ	7/1/2005
Methanesulfonate (Ethyl-)	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10420	Yes	NJ	12/1/2006
Methanesulfonate (Methyl-)	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj., Capillary	SCM10.10430	Yes	NJ	12/1/2006
Methapyrilene	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj., Capillary	SCM10.10440	Yes	NJ	9/8/2016
Methyl phenol (4-chloro-3-)	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10460	Yes	NJ	7/1/2002
Methylcholanthrene (3-)	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10470	Yes	NJ	4/23/2009
Methylnaphthalene (1-)	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10480	Yes	NJ	1/23/2009
Methylnaphthalene (2-)	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10490	Yes	NJ	7/1/2002
Methylphenol (2-)	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10500	Yes	NJ	7/1/2002
Methylphenol (3-)	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10510	Yes	NJ	7/1/2002
Methylphenol (4-)	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10520	Yes	NJ	7/1/2002
Naphthalene	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10530	Yes	NJ	7/1/2002
Naphbaulnone (1.4-)	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10540	Yes	NJ	12/1/2006
Napththylamine (1-)	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10540	Yes	NJ	12/1/2006
Napththylamine (2-)	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10550	Yes	NJ	12/1/2006
	SCM			GCMS, Extract or Dr Inj, Capitary		Yes		
Nitroanline (2-)	SCM	Certified	SW-846 8270D	GCMS, Extract or Dir Inj, Capillary	SCM10.10570	Yes	NJ	7/1/2002
Nitroanline (3-)		Certified	SW-846 8270D		SCM10.10580		NJ	7/1/2002
Nitroanline (4-)	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10590	Yes	NJ	7/1/2002
Nitrobenzene	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10600	Yes	NJ	7/1/2002
Nitrophenol (2-)		Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary		Yes	NJ	7/1/2002
Nitrophenol (4-)	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10630	Yes	NJ	7/1/2002
N-Nitrosodiethylamine	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10640	Yes	NJ	7/1/2004
N-Nitrosodimethylamine	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10650	Yes	NJ	7/1/2005
N-Nitroso-di-n-butylamine	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10660	Yes	NJ	7/1/2005
N-Nitroso-di-n-propylamine	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10670	Yes	NJ	7/1/2004
N-Nitrosodiphenylamine	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10680	Yes	NJ	7/1/2002
N-Nitrosomethylethylamine	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10690	Yes	NJ	7/1/2005
N-Nitrosomorpholine	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10700	Yes	NJ	7/1/2005
N-Nitrosopiperidine	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10710	Yes	NJ	12/1/2006
	SCM	Certified	SW-846 8270D	GCMS, Extract or Dir Inj, Capillary	SCM10.10710	Yes	NJ	7/1/2005
N-Nitrosopyrrolidine	SCM			GCMS, Extract or Dir Inj, Capillary		Yes		
Octadecane (n-)		Certified	SW-846 8270D		SCM10.10730		NJ N I	10/15/2010
Parathion mathed	SCM	Certified	SW-846 8270D	GCMS, Extract or Dir Inj. Capillary	SCM10.10740	Yes	NJ	7/1/2005
Parathion methyl	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10750	Yes	NJ	7/1/2005
Pentachlorobenzene	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10830	Yes	NJ	7/1/2005
Pentachioroethane	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10840	Yes	NJ	7/1/2007
Pentachioronitrobenzene	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10850	Yes	NJ	7/1/2005
Pentachiorophenol	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10860	Yes	NJ	7/1/2002
Phenacetin	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10870	Yes	NJ	12/1/2006



Phenanthrene	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10880	Yes	NJ	7/1/2002
Phenol	SCM	Certified	SW-846 8270D	GCMS, Extract or Dir Inj. Capillary	SCM10.10890	Yes	NJ	7/1/2002
Phenylenediamine (1,4-)	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj. Capillary	SCM10.10900	Yes	NJ	9/8/2016
Phenylethylamine (alpha, alpha-	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Ini, Capillary	SCM10.10910	Yes	NJ	12/1/2006
Dimethyl)		Ceruncu	011 040 02100	Comp, Essaci of Dir Ing, Capitaly	GOM10.10310	102	140	12 112000
Phorate	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10920	Yes	NJ	7/1/2005
Phosphorothicate (O,O,O-triethyl)	SCM	Certified	SW-846 8270D	GCMS, Extract or Dir Inj, Capillary	SCM10.10930	Yes	NJ	12/1/2006
Phosphorothicate (diethyl-O-2- pyrazinyl) [Thionazin]	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10940	Yes	NJ	12/1/2006
Picoline (2-)	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.10950	Yes	NJ	7/1/2005
Pronamide	SCM	Certified	SW-846 8270D	GCMS, Extract or Dir Inj, Capillary	SCM10.10960	Yes	NJ	7/1/2005
Pyrene	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj. Capillary	SCM10.10970	Yes	NJ	7/1/2002
Pyridine	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj. Capillary	SCM10.10980	Yes	NJ	7/1/2002
Quinoline	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj. Capillary	SCM10.10990	Yes	NJ	9/8/2016
Quinoline -1-Oxide (4-Nitro)	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Ini, Capillary	SCM10.11000	Yes	NJ	12/1/2006
Safrole	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj. Capillary	SCM10.11010	Yes	NJ	12/1/2006
Tetrachiorobenzene (1,2,4,5-)	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj. Capillary	SCM10.11060	Yes	NJ	7/1/2005
Tetrachiorophenol (2.3.4.6-)	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj. Capillary	SCM10.11070	Yes	NJ	12/1/2006
Toluidine (2-) (2-Methylaniline)	SCM	Certified	SW-846 8270D	GCMS, Extract or Dir Inj, Capillary	SCM10.11070	Yes	NJ	7/1/2005
Toluidine (5-nitro-2-)	SCM	Certified	SW-846 8270D	GC/MS, Extract or Dir Inj. Capillary	SCM10.11100	Yes	NJ	12/1/2006
Trichlorobenzene (1.2.4-)	SCM	Certified	SW-946 8270D	GCMS, Extract or Dir Inj, Capillary	SCM10.11100	Yes	NJ	7/1/2008
Trichlorophenol (2.4.5-)	SCM	Certified	SW-846 8270D	GCMS, Extract or Dir Inj, Capillary	SCM10.11130	Yes	NJ	7/1/2002
Trichlorophenol (2.4.6-)	SCM	Certified	SW-846 8270D	GCMS, Extract or Dir Inj, Capillary	SCM10.11140	Yes	NJ	7/1/2002
Trinitrobenzene (1.3.5-)	SCM	Certified	SW-846 8270D	GCMS, Extract or Dir Inj, Capillary	SCM10.11160	Yes	NJ	12/1/2005
Transfer and Cripital A	SCM	Certified	SW-846 8270D	GC/MS/SIM, Extract or Dir Inj, Capillary	SCM10.11170	Yes	NJ	5/18/2015
Acenaphthene Acenaphthylene	SCM	Certified	SW-846 8270D	GC/MS/SIM, Extract or Dir Inj. Capitary	SCM10.11170	Yes	NJ	5/18/2015
	SCM	Certified	SW-846 8270D		SCM10.11180	Yes	NJ	5/18/2015
Anthracene	SCM			GC/MS/SIM, Extract or Dir Inj, Capillary			NJ	
Benzo(a)anthracene	SCM	Certified	SW-846 8270D SW-846 8270D	GC/MS/SIM, Extract or Dir Inj, Capillary	SCM10.11200	Yes	NJ	1/2/2007
Benzo(a)pyrene	SCM	Certified Certified	SW-846 8270D	GC/MS/SIM, Extract or Dir Inj, Capillary GC/MS/SIM, Extract or Dir Inj, Capillary	SCM10.11210 SCM10.11220	Yes	NJ	1/2/2007
Benzo(b)fluoranthene	SCM			GC/MS/SIM, Extract or Dir Inj. Capillary		Yes	NJ NJ	
Benzo(ghl)perylene	SCM	Certified	SW-846 8270D	GC/MS/SIM, Extract or Dir Inj. Capitary	SCM10.11230	Yes		5/18/2015
Benzo(k)fluoranthene	SCM	Certified	SW-846 8270D		SCM10.11240		NJ	1/2/2007
Chrysene	SCM	Certified	SW-846 8270D	GC/MS/SIM, Extract or Dir Inj, Capillary	SCM10.11250	Yes	NJ	5/18/2015
Dibenzo(a,h)anthracene		Certified	SW-846 8270D	GC/MS/SIM, Extract or Dir Inj, Capillary	SCM10.11260	Yes	NJ	1/2/2007
Dinitrophenol (2-methyl-4,6-)	SCM	Certified	SW-846 8270D	GC/MS/SIM, Extract or Dir Inj, Capillary	SCM10.11270	No	NJ	12/1/2015
Dioxane (1,4-)	SCM	Certified	SW-846 8270D	GC/M8/SIM, Extract or Dir Inj, Capillary	SCM10.11274	Yes	NJ	1/18/2017
Fluoranthene	SCM	Certified	SW-846 8270D	GC/M8/SIM, Extract or Dir Inj, Capillary	SCM10.11280	Yes	NJ	5/18/2015
Fluorene	SCM	Certified	SW-846 8270D	GC/M8/SIM, Extract or Dir Inj, Capillary	SCM10.11290	Yes	NJ	5/18/2015
Hexachloroberzene	SCM	Certified	SW-846 8270D	GC/MS/SIM, Extract or Dir Inj, Capillary	SCM10.11300	Yes	NJ	1/2/2007
Hexachlorobutadiene (1,3-)	SCM	Certified	SW-846 8270D	GC/MS/SIM, Extract or Dir Inj., Capillary	SCM10.11310	Yes	NJ	12/1/2015
Indeno(1,2,3-cd)pyrene	SCM	Certified	SW-846 8270D	GC/MS/SIM, Extract or Dir Inj., Capillary	SCM10.11320	Yes	NJ	1/2/2007
Methylnaphthalene (2-)	SCM	Certified	SW-846 8270D	GC/MS/SIM, Extract or Dir Inj., Capillary	SCM10.11340	Yes	NJ	5/18/2015
Naphthalene	SCM	Certified	SW-846 8270D	GC/MS/SIM, Extract or Dir Inj, Capillary	SCM10.11350	Yes	NJ	5/18/2015
Pentachiorophenol	SCM	Certified	SW-846 8270D	GC/MS/SIM, Extract or Dir Inj, Capillary	SCM10.11370	Yes	NJ	1/2/2007
Phenanthrene	SCM	Certified	SW-846 8270D	GC/MS/SIM, Extract or Dir Inj., Capillary	SCM10.11380	Yes	NJ	5/18/2015
Pyrene	SCM	Certified	SW-846 8270D	GC/MS/SIM, Extract or Dir Inj, Capillary	SCM10.11390	Yes	NJ	5/18/2015
Dioxane (1,4-)	SCM	Certified	User Defined SW-846 8270D	GC/MS, Extract or Dir Inj, Capillary	SCM10.12330	Yes	NJ	1/23/2012
1,1,1-Trifuoroethane	SCM	Certified	User Defined SW-846 8260B	GC/MS, P & T or Direct Injection,	SCM10.12810	Yes	NJ.	7/26/2013
1-Chioro-1,1-difluoroethane	SCM	Certified	User Defined SW-846 8260B	GC/MS, P & T or Direct Injection,	SCM10.12820	Yes	NJ	7/26/2013
1,1-Dichloro-1-fluoroethane	SCM	Certified	User Defined SW-846 8260B	GC/MS, P & T or Direct Injection,	SCM10.12824	Yes	NJ	7/26/2013
Ethylene glycol	SCM	Certified	User Defined SW-846 8260B	GC/MS/SIM, Direct Aqueous Injection	SCM10.12860	Yes	NJ	11/12/2008
Propylene glycol	SCM	Certified	User Defined SW-846 8260B	GC/MS/SIM, Direct Aqueous Injection	SCM10.12870	Yes	NJ	11/12/2008
Diesel range organic	SCM	Certified	User Defined TCEQ 1005	Extraction, GC, FID	SCM14.00920	Yes	NJ	10/15/2010
Perchiorate	SCM	Certified	User Defined EPA 314	Ion Chromatography	SCM14.01940	Yes	NJ	10/6/2010



## Method Capabilities—Non-NELAP Methods

<u>Analytes</u>	Method Number	<u>Program</u>	Chemistry Field
Phenols	EPA 420.4	Drinking Water	Inorganic Analysis
Carbon Dioxide	SM 4500-CO <sub>2</sub> C or D	Wastewater	Inorganic Analysis
Iodide	SM 4500-I B	Wastewater	Inorganic Analysis
Nonionic Surfactants as CTAS	SM 5540 D	Wastewater	Inorganic Analysis
Particulate Matter	EPA 160.2M	Wastewater	Inorganic Analysis
Phosphorus, Hydrolyzable	EPA 365.3	Wastewater	Inorganic Analysis
Redox Potential vs H+	ASTM D1498-76	Wastewater	Inorganic Analysis
Specific Gravity	ASTM D1298-85	Wastewater	Inorganic Analysis
Total Organic Content	ASTM D2974-87	Wastewater	Inorganic Analysis
Unburned Combustibles	EPA 160.1+160.4	Wastewater	Inorganic Analysis
Viscosity	ASTM D445/6	Wastewater	Inorganic Analysis
Volatile Suspended Solids	EPA 160.2+160.4	Wastewater	Inorganic Analysis
Weak Acid Dissociable Cyanide Prep	SM 4500-CN I	Wastewater	Inorganic Analysis
Ammonia	EPA 350.1M	Solid/Haz. Waste	Inorganic Analysis
Ammonia	EPA 350.2M	Solid/Haz. Waste	Inorganic Analysis
Base Sediment	ASTM D473-81	Solid/Haz. Waste	Inorganic Analysis
Bulk Density (Dry Basis)	ASTM D2937-94M	Solid/Haz. Waste	Inorganic Analysis
Chemical Oxygen Demand	HACH 8000M	Solid/Haz. Waste	Inorganic Analysis
Chloride	EPA 325.3M	Solid/Haz. Waste	Inorganic Analysis
Grain Size & Sieve Testing	ASTM D422-63	Solid/Haz. Waste	Inorganic Analysis
Heat Content, BTU	ASTM D3286-85	Solid/Haz. Waste	Inorganic Analysis
Ignitability (Flashpoint)	ASTM D93-90/SW846 Ch 7	Solid/Haz. Waste	Inorganic Analysis
Multiple Extractions	SW846 1320	Solid/Haz. Waste	Inorganic Analysis
Neutral Leaching Procedure	ASTM D3987-85	Solid/Haz. Waste	Inorganic Analysis
Nitrate/Nitrite	EPA 353.2M	Solid/Haz. Waste	Inorganic Analysis
Organic Matter (Ignition Loss)	AASHTO T267-86M	Solid/Haz. Waste	Inorganic Analysis
Orthophosphate	EPA 365.2M	Solid/Haz. Waste	Inorganic Analysis
Percent Ash (Dry Basis)	ASTM D482-91	Solid/Haz. Waste	Inorganic Analysis
Percent Solids	ASTM D4643-00	Solid/Haz. Waste	Inorganic Analysis
Percent Sulfur	ASTM D129-61	Solid/Haz. Waste	Inorganic Analysis
Phosphorus, Total	EPA 365.3M	Solid/Haz. Waste	Inorganic Analysis
Phosphorus, Hydrolyzable	EPA 365.3M	Solid/Haz. Waste	Inorganic Analysis
Pour Point	ASTM D97-87	Solid/Haz. Waste	Inorganic Analysis
Reactive Cyanide	SW846 7.3.3.2	Solid/Haz. Waste	Inorganic Analysis



### Method Capabilities—Non-NELAP Methods

<u>Analytes</u>	Method Number	<u>Program</u>	Chemistry Field
Reactive Sulfide	SW846 7.3.4.2	Solid/Haz. Waste	Inorganic Analysis
Redox Potential vs H+	ASTM D1498-76M	Solid/Haz. Waste	Inorganic Analysis
Specific Gravity of Solids	ASTM D1429-86M	Solid/Haz. Waste	Inorganic Analysis
Sulfide (S)	EPA 376.1 M	Solid/Haz. Waste	Inorganic Analysis
Sulfite (SO <sub>3)</sub>	EPA 377.1M	Solid/Haz. Waste	Inorganic Analysis
Total Chlorine	ASTM D808-91	Solid/Haz. Waste	Inorganic Analysis
Total Kjeldahl Nitrogen	EPA 351.2M	Solid/Haz. Waste	Inorganic Analysis
Total Organic Carbon	CORP ENG 81	Solid/Haz. Waste	Inorganic Analysis
Total Organic Carbon	LLOYD KAHN 1988	Solid/Haz. Waste	Inorganic Analysis
Total Organic Chlorine	ASTM D808-91M	Solid/Haz. Waste	Inorganic Analysis
Total Plate Count	SM 9215BM	Solid/Haz. Waste	Inorganic Analysis
Total Volatile Solids	EPA 160.4M	Solid/Haz. Waste	Inorganic Analysis
Water Content	ASTM D95-83	Solid/Haz. Waste	Inorganic Analysis



## Appendix IV

Laboratory Equipment



Equipment (Air Lab)	Manufacture & Description	Serial Number	Operating System Software	Data Processing Software	Location	Purchase
GC-AA	GC Agilent 7890A/FID	CN10361127	HP Chemstation	HP Enviroquant	Air Laboratory	N/A
GC-J			HP Chemstation	HP Enviroquant	Air Laboratory	N/A
GCMS- 5W	Agilent Technologies 5975C / 7890A / Entech7200pre-concentrator pre-concentrator	US13207902/CN13141001/1123	HP Chemstation	HP Chemstation	Air Laboratory	2013
GCMS-2W	Agilent Technologies 5975C / 7890A Entech 7016CA	CN10361158 / US10323601 / CN10361158	HP Chemstation	HP Enviroquant	Air Laboratory	2012
GCMS-3W	Agilent Technologies 5973 / 6890N Entech 7016A	CN10425086 / US41746669 / 1351	HP Chemstation	HP Enviroquant	Air Laboratory	2007
GCMS-Q	Hewlett-Packard 5890ll / 5971 MSD / Entech Air Samp 7000	3033A31092 / 3188A02934	HP Chemstation	HP Enviroquant	Air Laboratory	1993
GCMS-W	Agilent Technologies 5973 / 6890N AS Entech 7016CA	US44621451 / CN10517032 / 1119	HP Chemstation	HP Enviroquant	Air Laboratory	2005
GC-QT	Agilent 6890 / PID / FID / Entech 7032AB-L	US10148124/1176	HP Chemstation	HP Enviroquant	Air Laboratory	2010
GC-WW	Hewlett-Packard6890 / PID	US00010037	HP Chemstation	HP Enviroquant	Air Laboratory	2010
GCMS – 6W			HP Chemstation	HP Enviroquant	Air Laboratory	
OVEN – 10A	Entech 3100A Canister cleaner	0404-4596	None	None	Air Laboratory	N/A
OVEN – 10C	Entech 3100A Canister cleaner	0404-4597	None	None	Air Laboratory	N/A
OVEN – 10E	Entech 3100A Canister cleaner	N/A	None	None	Air Laboratory	N/A
OVEN -10F	Entech 3100A Canister cleaner	N/A	None	None	Air Laboratory	N/A
Test Gauge	Ashcroft (TG-1)	None	None	None	Air Laboratory	N/A
Test Gauge	Ashcroft (TG-2)	None	None	None	Air Laboratory	N/A
Test Gauge	Ashcroft (TG-3)	None	None	None	Air Laboratory	N/A
Test Gauge	Ashcroft (TG-4)	None	None	None	Air Laboratory	N/A



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Flow Meters	Flow Professor	FP1, FP2, FP3, FP4	None	None	Air Laboratory	N/A
Equipment (Air Lab,	Manufacture & Description	Serial Number	Operating System	Data Processing	Location	Purchase
cont'd)	Description		Software	Software		
Cleaning System	Entech		None	None		
Tube Conditioner	Markes International TC-20	R-10659	None	None		
Wrist Action Shaker	Burrell Model 75		None	None		
Cleaning System-1	Entech 3100A	1064	None	None		



Equipment (General Chemistry Lab)	Manufacture & Description	Serial Number	Operating System Software	Data Processing Software	Location	Purchase
DO Meter	YSI-51B	92A035818	None	None	Field Serv.	1998
DO Meter	YSI-55/12ft	00C0598BG	None	None	Field Serv.	2000
PH Meter-10	YSI	JC02538	None	None	Field Serv.	2007
PH Meter-11	YSI	JC02540	None	None	Field Serv.	2010
PH Meter-9	Orion 250A	O18019	None	None	Field Serv.	2007
SCON Meter	YSI-30	J0183	None	None	Field Serv.	2004
Balance- Top Load	Ohaus Adventure AV212 (B-36)	8029131104	None	None	IC Lab	2008
Balance- Analytical	Ohaus Adventurer (B-24)	1225032523P	None	None	Inorganics	2004
Balance- Analytical (B-5)	Mettler AE 160 (B-5)	C11620	None	None	Inorganics	1999
Balance- Top Load (B-43)	Ohaus Adv. Pro (B43)	8032501223	None	None	Inorganics	2012
Balance- Top Load (B-14)	Denver Inst. Co. XL500 (B-14)	B045530	None	None	Inorganics	Pre-2000
Balance- Top Load (B-52)	Ohaus Adv. Pro (B52)	B334691952	None	None	Inorganics	2013
Balance- Top Load (B-16)	Ohaus Explorer (B-16)	E1581119212171	None	None	Inorganics	2001
Balance- Top Load (B-21)	Ohaus Adventurer (B-21)	E1021218270448	None	None	Inorganics	2001
Balance- Top Load (B-27)	Ohaus Adventurer AV412 (B-27)	8026251106	None	None	Inorganics	2005
Balance- Top Load (B-32)	Sartorius TE31025 (B-32)	21950273	None	None	Inorganics	2007
Balance- Top Load (B-39)	Denver P-214 (B-39)	25450279	None	None	Inorganics	2010
Balance- Top Load (B-53)	A+D HR-250A (B-53)	687601248	None	None	Inorganics	2012
Balance- Top	Ohaus Adv. Pro (B-37)	8029161122	None	None	Inorganics	2013



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					Kevision Date	. july 11, 20
Load (B-37)						
Equipment (General Chem Lab, cont'd)	Manufacture & Description	Serial Number	Operating System Software	Data Processing Software	Location	Purchas
Balance- Top Load(B-51)	(B-51)		None	None		
Calorimeter	PARR 1261EA	1499	None	None	Inorganics	1996
COD Block	HACH DRB200	11020C0029	None	None	Inorganics	2010
Distillation Block 1	Lachat Micro Distillation system	A2000738	None	None	Inorganics	2010
Distillation Block 2	Lachat Micro Distillation system	A2000726	None	None	Inorganics	2010
Distillation Block 3	Lachat Micro Distillation system	A2000807	None	None	Inorganics	2010
DO Meter	YSI 5000	07B1560	None	None	Inorganics	2008
FIA Analyzer	Lachat Quikchem 8000	13200001620	None	None	Inorganics	
Flashpoint	Koehler – K16200	R07002295	None	None	Inorganics	2010
Flashpoint	Koehler – K16200	R07002563B	None	None	Inorganics	2010
IC-2	Dionex ICS2000	2090737	Dionex Chrom. Client	Dionex Chrom. Client	Inorganics	2004
IC-3	Dionex ICS2000	2110028	Dionex Chrom. Client	Dionex Chrom. Client	Inorganics	2004
IC-4	Dionex ICS2000	4060060	Dionex Chrom. Client	Dionex Chrom. Client	Inorganics	2004
IC-6	Dionex ICS3000	Column 6040160	Dionex Chrom. Client	Dionex Chrom. Client	Inorganics	2006
IC-7	Dionex IC5000+	Pump-13120208, IC-7 7199, IC-A (2187), Column 13117597	Dionex Chrom. Client	Dionex Chrom. Client	Inorganics	2013
IC-8	Dionex IC5000, 5000-1	Column 10120556				



Equipment (General Chem Lab, cont'd))	Manufacture & Description	Serial Number	Operating System Software	Data Processing Software	Location	Purchase
IC-9	IC5000, 5000-3	Column 11090696				
IC-B	IC- 2100 Fatty Acids	11090126				
Seal Analyzer	Discreet Analyzer (AQ-2)	190185				
IR Spec.	Buck Scientific HC-404	687	None	None	Inorganics	1997
Oven (Inc-21)	Fisher	N/A	None	None	Inorganics	2014
Oven (Inc-7)	Precision	699030922	None	None	Inorganics	2014
Oven Inc 19	Total Dissolved Solids(180°C)	20-2100149111	None	None	Inorganics	2014
PH Meter-46	Thermo Orion 4 Star	B10299	None	None	Inorganics	2008
PH Meter-47	Thermo Orion 4 Star	B04869	None	None	Inorganics	2008
PH Meter-50	Orion Star Series	B27564	None	None	Inorganics	2010
pH Meter-53	VWR Symphony B10P	1223350009	None	None	Inorganics	2013
PH Meter-54	Thermo Orion 710A	X08035	None	None	Inorganics	2013
PH Meter-55	Thermo-Orion	X10686	None	None	Inorganics	2014
pH Meter-57	VWR Symphony B10P	1411150002	None	None	Inorganics	2014
pH Meter-59	VWR Symphony B10P	14087S0006	None	None	Inorganics	2014
pH Meter-60	VWR Symphony B10P	1413950006	None	None	Inorganics	2014
pH-eH Meter-22	Thermo Orion 4 Star	SN00742	None	None	Inorganics	2008
pH Meter-62	VWR Symphony B10P		None	None		
SCON Meter	Amber Science 1056	01020851056-101	None	None	Inorganics	2001
SCON Meter	Orion 145+	78035	None	None	Inorganics	2004
Solvent Evaporator	Horizon SPE-DEX 3000XL	09-1031	None	None	Inorganics	2010
Solvent Evaporator	Horizon SPEED VAP III	09-0739	None	None	Inorganics	2010



Equipment (General Chem Lab cont'd)	Manufacture & Description	Serial Number	Operating System Software	Data Processing Software	Location	Purchase
TCLP Rotator 4	Assoc. Design and Mfg. Co. 3740-24-BRE-TM	N/A	None	None	Inorganics	2000
TCLP Rotator 5	Analytical Testing Corp. 42R5BCI-E3	0685KZJP0013	None	None	Inorganics	2002
TCLP Rotator 7&8	Assoc. Design and Mfg. Co. 3740-48BRE	N/A	None	None	Inorganics	2000
TCLP Rotator 9&10	Assoc. Design and Mfg. Co. 3740-48BRE	2132337	None	None	Inorganics	1996
TOC-L Analyzer	Shimadzu TOC-L	H52516900071	Shimadzu TOC Control	Shamadzu TOC Control	Inorganics	2012
TOC-L Analyzer	Shimadzu TOC-L	H52515000114NK	Shimadzu TOC Control	Shamadzu TOC Control	Inorganics	2013
TOC-V Analyzer	Shimadzu TOC-V CSH	H52504400192NK	Shimadzu TOC Control	Shimadzu TOC Control	Inorganics	2007
TOX Analyzer	Mitsubishi TOX-100	N/A	None	None	Inorganics	1996
TOX Analyzer	Mitsubishi TOX-100	A7M 42997	None	None	Inorganics	2008
UVVIS Spec E	Spectronix 20 Genesys	3SGD.352011	None	None	Inorganics	2007
UVVIS Spec J	Thermo Electron Corp. Genesys 20	3SGQ235018	None	None	Inorganics	20012
UVVIS Spec L	Thermo Electron Corp. Genesys 20	3SGS073003	None	None	Inorganics	2014
UVVIS Spec M	Spectronix 20 Genesys	3SG82480005	None	None	Inorganics	2013
UVVIS Spec N	Spectronix 20 Genesys	3SGS247010	None	None	Inorganics	2013
Pensky Martens	Pensky Martens 35000-0	1043454	None	None		
Lachat Module	Lachat Ammonia Distillation Module	16-107-06-S-J	None	None		



Equipment	Manufacture & Description	Serial Number	Operating	Data Processing	Location	Purchased
(General Chem			System Software	Software		
Lab cont'd)						
TOC Analyzer	Scimadzu	H544114900158 AE	None	None		
TOC Analyzer	Scimadzu, Autosampler	H571149000354 SA	None	None		
TOC Analyzer	Scimadzu, Autosampler	52514900066 NK	None	None		
PH Meter-23	Thermo Orion Model 310	SN013786	None	None	Inorganics	2008
Hot Block 8	Environmental Express	N/A	None	None	Mercury Prep	
Hot Block 7	Environmental Express	N/A	None	None	Mercury Prep	
Automatic Pensky Martens	Seta PM-93 Flash Point Closed Cup Tester	1043454	None	None	Gen Chem	2017



Equipment (Metals)	Manufacturer & Description	Serial Number	Operating System	Data Processing System	Location	Purchase
ICP	Thermo ICP 6500 Duo	ICP-20074909	ITEVA	ITEVA	Metals	2007
ICP	Thermo ICP 6500 Duo	ICP-20114506	ITEVA	ITEVA	Metals	2011
ICP	Thermo ICP 6500 Duo	ICP-20072601	ITEVA	ITEVA	Metals Analysis	2007
ICP	Thermo ICP 6500 Duo	IC5D20122506	ITEVA	ITEVA	Metals Analysis	2012
ICP	Thermo ICP 6500 Duo	IC76DC134708	ITEVA/QTEG RA	ITEVA/QTEGR A	Metals Analysis	2014
ICP-MS	Agilent 7700 Series	JP12412081	MassHunter Workstation	MassHunter Workstation	Metals Analysis	2014
ICP-MS	Agilent 7700 Series	JP10340551	MassHunter Workstation	MassHunter Workstation	Metals Analysis	2010
ICP Auto- Sampler	Express AutoSampler	071406XPS	None	None		
Hot Block 1	Environmental Express	N/A	None	None	Metals Prep	
Hot Block 2	Environmental Express	N/A	None	None	Metals Prep	
Hot Block 3	Environmental Express	N/A	None	None	Metals Prep	
Hot Block 4	Environmental Express	N/A	None	None	Metals Prep	
Hot Block 5	Environmental Express	N/A	None	None	Metals Prep	
Hot Block 6	Environmental Express	N/A	None	None	Metals Prep	
Balance- Top Load	Ohaus Scout II (B-20)	BJ320905	None	None	Methanol Prep	2002
Balance- Top Load	Ohaus Scout II (B-25)	BJ514770	None	None	Methanol Prep	2004
Balance- Top Load	Ohaus Adventurer AR3130 (B-26)	1240-P	None	None		
Balance – Analytical	Ohaus Adventurer (B-24)	1225032523P	None	None		
Hg Analyzer	HYDRAA II	64013	Envoy	Envoy		
Hg Analyzer	Leeman Mercury Analyzer HYDRAAF Gold+	9003	WIN Hg Runner	WIN Hg Runner		
Hg Analyzer 7	Hydra II	64631	Envoy	Envoy		



Equipment (Microbiology Lab)	Manufacture & Description	Serial Number	Operating System	Data Processing System	Location	Purchase
Autoclave	Tuttnauer	1308435	None	None	Microbiology	2011
Incubator BOD	VWR	702499	None	None	Microbiology	2011
Incubator (Plates)	Theclo Precision	11T3	None	None	Microbiology	N/A
Incubator(BOD)	ISOTEMP	317646	None	None	Microbiology	2010
Incubator-Water Bath	INC-2	1200991	None	None	Microbiology	N/A
Refrigerator	R-44	0503MCBR980W0087	None	None	Microbiology	N/A
Incubator (Plates)	Thelco Precision	4-D-5	None	None	Microbiology	N/A



Equipment (Organic Prep)	Manufacture & Description	Serial Number	Operating System	Data Processing Software	Location	Purchase
Balance- Top Load (B-46)	Ohaus Adventurer Pro (B-46)	B304755401	None	None	Organic Prep	Pre-2000
Balance- Top Load (B-45)	Ohaus Adventurer Pro (B-45)	B033051054	None	None	Organic Prep	2002
Balance- Top Load (B-42)	Ohaus Adventurer Pro (B-42)	B031331113	None	None	Organic Prep	2007
Balance- Top Load (B-47)	Ohaus Adventurer Pro (B-47)	4755411	None	None	Organic Prep	2013
Buchi -1	Buchi Concentrator System	1000175446	None	None	Organic Prep	2014
Buchi -2	Buchi Concentrator System	1000175108	None	None	Organic Prep	2014
Buchi-3	Buchi Concentrator System	1000175657	None	None	Organic Prep	2014
Buchi-4	Buchi Concentrator System	Not in service	None	None	Organic Prep	N/A
Centrifuge	Thermo Scientific	41394883	None	None	Organic Prep	2014
GPC4	Waters 717	717-000152	None	None	Organic Prep	1992
Microwave-3	MARS 6 CEM	MJ2659 (warranty expires June 2014)	None	None	Organic Prep	2013
Microwave-4	MARS 6 CEM	MJ2198	None	None	Organic Prep	2013
Microwave-5	MARS 6 CEM	MJ2197	None	None	Organic Prep	2013
Microwave-6	MARS 6 CEM	MJ2670	None	None		
Mini Water Bath	Thermo Scientific	234221-1379	None	None	Organic prep	2014
N-EVAP 1	Organomation	59301	None	None	Organic Prep	2014
N-EVAP 2	Organomation	58202	None	None	Organic Prep	2014
Sonicator	Fisher	F550	None	None	Organic Prep	N/A
Sonicator	Bransen	BIO3037527	None	None	Organic Prep	N/A
Sonicator	Misonix	S3000	None	None	Organic Prep	1997
Water Bath 1	Organomation	13385	None	None	Organic Prep	2010
Water Bath 10	Organomation	58394	None	None	Organic prep	2014
Water Bath 11	Organomation	58384	None	None	Organic prep	2014



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Water Bath 3	Organomation	58471	None	None	Organic Prep	2010
Water Bath 4	Organomation	58421	None	None	Organic Prep	2014
Equipment (Organic Prep, cont'd)	Manufacturer & Description	Serial Number	Operating System	Data Processing Software	Location	Purchase
Water Bath 5	Organomation	58422	None	None	Organic Prep	2014
Water Bath 8	Organomation	58424	None	None	Organic Prep	2014
Water Bath 9	Organomation	58425	None	None	Organic prep	2013
Water Bath 6	Organomation	58423	None	None	Organic Prep	2014
Water Bath 7	Organomation	58379	None	None	Organic Prep	2014



Equipment (OrganicsLab)	Manufacturer & Description	Serial Number	Operating System	Data Processing Software	Location	Purchase
GC-SC	Hewlett-Packard 5890 / FID / OI4551 / 4560	2443AO3797	HP Chemstation	HP Enviroquant	Organics; Screening	1990
GC-SR	Hewlett-Packard 5890 / FID / Tekmar 7000	2612A07448	HP Chemstation	HP Enviroquant	Organics; Screening	1992
GC-ST	Hewlett-Packard 5890 / FID / NPD / HP 7673 AS / Tek	314OA38871	HP Chemstation	HP Enviroquant	Organics; Screening	1996
GC-SV	Hewlett-Packard 5890 / FID / OI4551 / 4560	LR47-359C / N244460743 / 3336A58859	HP Chemstation	HP Enviroquant	Organics; Screening	1996
GC 7Y/7Zz	Agilent Technologies 6890N / 7683	US00043006 / US12211759 / CN52926441 / CN60931595	HP Chemstation	HP Enviroquant	Organics; SVOCs	2010
GC-5G	Agilent Technologies 7890N/7693	CN12131022 / CN12060027 / CN12070097 / U20782/U20781	HP Chemstation	HP Enviroquant	Organics; SVOCs	2008
GC-5Y-5Z	Agilent Technologies 7890N / 7683	CN11461115 / CN11380009 / CN11390012 / CN73342671	HP Chemstation	HP Enviroquant	Organics; SVOCs	2010
GC-6G	Agilent Technologies 6890N 7683	CN10611064 / CN44330971 / CN40334835 / U4788 / U18013	HP Chemstation	HP Enviroquant	Organics; SVOCs	2010
GC-6y-6z	Agilent Technologies 7890N / 7683	CN11461118 / CN10310044 / CN83252932 / CN73342695	HP Chemstation	HP Enviroquant	Organics; SVOCs	2010
GC-7G	Agilent Technologies 6890N 7683	US10606009 / CN53236207 / CN40434847 / U23574/ U24374	HP Chemstation	HP Enviroquant	Organics; SVOCs	2010
GC-8Y/8Z	Agilent Technologies 6890N / 7683	US10240121 / GT030513A / CN43038210 / CN40334821	HP Chemstation	HP Enviroquant	Organics; SVOCs	2011
GCMS-4P	Agilent Technologies 5973 / 6890N AS 7683 AS	CN10251017 / US102440773 / CN34727122 / CN61031719	HP Chemstation	HP Enviroquant	Organics; SVOCs	2010
GCMS-5P	Agilent Technologies 5973 / 6890N AS 7683 AS	CN10222060 / US21844818 / CN52834726 / CN21725012	HP Chemstation	HP Enviroquant	Organics; SVOCs	2010
GC-XX	Hewlett-Packard 6890 / Dual ECD / HP 7683 AS	US00022968 / CN32023953 / CN32030876 / U0109 / U0905	HP Chemstation	HP Enviroquant	Organics; SVOCs	1998
GC-UV	Hewlett-Packard 5890 / Dual FID / OI 4551 / 4560	2921 A23322	HP Chemstation	HP Enviroquant	Organics; Volatiles	1996
GC-2Y/2Z	Agilent Technologies 6890N 7683	CN10407032 / CN61633946 / US94209706 / US01112207	HP Chemstation	HP Enviroquant	Organics; SVOCs	2004
GC-OA	Agilent Technologies 6890N / 7683	HP Chemstation	HP Enviroquant	Organics; SVOCs	2002	



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Equipment (OrganicsLab)	Manufacturer & Description	Serial Number	Operating System	Data Processing Software	Location	Purchase
GC-YZ/ZZ	Hewlett-Packard 6890 / 6890	US00011065 / 3527A39121 / 3521A42714 / 3511A42110	HP Chemstation	HP Enviroquant	Organics; SVOCs	2008
GC-EF	Hewlett-Packard 5890 / Dual ECD / HP 7673 AS	2541A06786 / 2942A20889 /F1916 / F5562	HP Chemstation	HP Enviroquant	Organics; Volatiles	1992
GC-LM	Hewlett-Packard 6890 / PID / FID / OI 4551 / 4560 P&T	US00008927	HP Chemstation	HP Enviroquant	Organics; Volatiles	1998
GCMS-L	Hewlett-Packard 5890 / 5970 MSD / OI 4551 / 4560 P&T	2921A22898 / 2623A01291	HP Chemstation	HP Enviroquant	Organics; Volatiles	1992
GC-SY	Hewlett-Packard 5890 / FID / OI4551A / 4560	2643A10503	HP Chemstation	HP Enviroquant	Organics; Screening	1990
GC-1G	Agilent Technologies 6890N / 7683	US10322012 / CN23821917 / CN23326744 / U21778 / U5597	HP Chemstation	HP Enviroquant	Organics; SVOCs	2003
GC-2G	Agilent Technologies 6890N / 7683	CN10450110 / CN24922557 / CN45022276 / U17684 / U7668	HP Chemstation	HP Enviroquant	Organics; SVOCs	2005
GC-3G	Agilent Technologies 6890N / 7683	CN10450109 / CN24922566 / CN45022167 / U7666 / U7667	HP Chemstation	HP Enviroquant	Organics; SVOCs	2005
GC-3Y/3Z	Agilent Technologies 7890A / 7683B	CN10735014 / CN74345941 / CN83252932 / CN73342695	HP Chemstation	HP Enviroquant	Organics; SVOCs	2007
GC-4G	Agilent Technologies 6890N / 7693	CN10361136 / CN10340093 / CN10310033 / U17615 / U17614	HP Chemstation	HP Enviroquant	Organics; SVOCs	2010
GC-4Y/4Z	Agilent Technologies 7890A / 7693B	CN10832133 / CN84451068 / CN83252936 / CN73342671	HP Chemstation	HP Enviroquant	Organics; SVOCs	2010
GCMS-2M	Agilent Technologies 5975 / 6890N AS 7683	CN10612028 / US60532578 / CN4593809290 / US82601187	HP Chemstation	HP Enviroquant	Organics; SVOCs	2012
GCMS-2P	Agilent Technologies 5975C / 7890A / 7693	US10237403 / CN10241022 / CN10210021 / CN10180007	HP Chemstation	HP Enviroquant	Organics; SVOCs	2010
GC – 8G	Agilent 7890A	CN1039N62 / CN10370238	HP Chemstation	HP Enviroquant	Organics; SVOCs	
GC – 9G	Agilent 6890	US00041387	HP Chemstation	HP Enviroquant	Organics; SVOCs	
GCMS-3E	Agilent Technologies 5975 / 6890N / 7683	CN10614011 / US61332852 / CN23326747 / US93901916	HP Chemstation	HP Enviroquant	Organics; SVOCs	2011
GCMS-3M	Agilent Technologies 5975B / 6890N / Agilent 7683B	US65125107 / CN10703029 / CN73943902 / US83801832	HP Chemstation	HP Enviroquant	Organics; SVOCs	2007
GCMS-3P	Agilent Technologies 5975C / 7890A / 7693	CN10361100 / CN10361163 /	HP Chemstation	HP Enviroquant	Organics; SVOCs	2010



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GCMS-4M	Agilent Technologies 5975C / 7890A / 7683B	US73317574 / CN1074251 / CN74043923 / CN74145736	HP Chemstation	HP Enviroquant	Organics; SVOCs	2007
Equipment (OrganicsLab)	Manufacturer & Description	Serial Number	Operating System	Data Processing Software	Location	Purchase
GCMS-4P	Agilent Technologies 5973 / 6890N AS 7683 AS	CN10251017 / US102440773 / CN34727122 / CN61031719	HP Chemstation	HP Enviroquant	Organics; SVOCs	2011
GCMS-6P	Agilent Technologies 5973 / 6890N AS 7683 AS	CN10536029 / US52420712 / US10310521 / CN55230259	HP Chemstation	HP Enviroquant	Organics; SVOCs	2011
GCMS-F	Agilent 6890 / 5973 MSD / 7683 AS	US00034179 / US01140200 / CN40327643 / CN138822139	HP Chemstation	HP Enviroquant	Organics; SVOCs	1998
GCMS-M	Hewlett-Packard 6890 / 5973 MSD / HP 7683 AS	US00021813 / US802111003 / US81501001 / CN61038860	HP Chemstation	HP Enviroquant	Organics; SVOCs	1999
GCMS-P	Agilent Technologies 5973 / 6890N AS 7683 AS	US10251064 / US21844598 / CN74145733 / CN24828486	HP Chemstation	HP Enviroquant	Organics; SVOCs	2003
GCMS-R	Agilent Technologies 6890 / 5973 MSD / 7683	US00021820 / US81211033 / US84202752 / CN61639349	HP Chemstation	HP Enviroquant	Organics; SVOCs	2008
GCMS-Z	Agilent Technologies 5973 / US10251028 / US21844586 / CN24828485 / 6890N AS 7683 AS CN23321564		HP Chemstation	HP Enviroquant	Organics; SVOCs	2003
Balance- Top Load (B-28)	Ohaus Sport (B-28)	7124230518	None	None	Organics; Volatiles	2005
Balance- Top Load (B-34)	Ohaus Adventure AV412 (B-34)	8028391117	None	None	Organics; Volatiles	2007
GC-GH	Hewlett-Packard 5890	2938A25059	HP Chemstation	HP Enviroquant	Organics; Volatiles	1990
GCMS-1A	Agilent Technologies 5973 / 6890N AS 4551A / 4660	CN10314026 / US30945331	HP Chemstation	HP Enviroquant	Organics; Volatiles	2003
GCMS-1B	Agilent Technologies 7890A / 5975C /Teledyne / Tekmar AquaTek AS	CN10845177 / US83111119	HP Chemstation	HP Enviroquant	Organics; Volatiles	2008
GCMS-1C	Agilent Technologies 5973 / 6890N AS 4551 / 4560	CN10425085 / US41746667	HP Chemstation	HP Enviroquant	Organics; Volatiles	2004
GCMS-2A	Agilent Technologies 5973 / 6890N AS Tekmar Solatek 72	CN10314028 / US30945325	HP Chemstation	HP Enviroquant	Organics; Volatiles	2003
GCMS-2B	Agilent Technologies 5973 / 6890N AS 4551A / 4660	CN10441033 / US 43146954	HP Chemstation	HP Enviroquant	Organics; Volatiles	2004
GCMS-2C	Agilent Technologies 5973 / 6890N AS 4551A / 4560	CN10441035 / US 43146953	HP Chemstation	HP Enviroquant	Organics; Volatiles	2004



Equipment (OrganicsLab)	Manufacturer & Description	Serial Number	Operating System	Data Processing Software	Location	Purchase
GCMS-2D	Agilent Technologies 5973 / 6890N AS 4552 / 4560	CN10432038 / US43146771	HP Chemstation	HP Enviroquant	Organics; Volatiles	2004
GCMS-2E	Agilent Technologies 5975 / 6890N AS 4551A / 4660	CN10612046 / US60532596	HP Chemstation	HP Enviroquant	Organics; Volatiles	2006
GCMS-2H	Agilient Technologies 6890 / 5973	US10123019 / US10440806	HP Chemstation	HP Enviroquant	Organics; Semi- Volatiles	
GCMS-3A	Agilent Technologies 5973 / 6890N AS 4551A / 4660	CN10432042 / US43146776	HP Chemstation	HP Enviroquant	Organics; Volatiles	2004
GCMS-3B	Agilent Technologies 6890 / 5973 / OI 4551A / 4660	US10240044 / US21844015	HP Chemstation	HP Enviroquant	Organics; Volatiles	2002
GCMS-3C	Agilent Technologies 5973 / 6890N AS 45551A / 4660	CN10517038 / US44621480	HP Chemstation	HP Enviroquant	Organics; Volatiles	2005
GCMS-3D			HP Chemstation	HP Enviroquant	Organics; Volatiles	2006
GCMS -3H	Agilent Technologies 5975B / 6890A/7683	US10250091 / CN24227710	HP Chemstation	HP Enviroquant	Organics; Semi- Volatiles	
GCMS-3V	Agilent Technologies 5975C/7890A/OI 4552/ 4560	US1321790 / CN13141045	HP Chemstation	HP Enviroquant	Organics; Volatiles	2013
GCMS-4B	OI 4660/ OI 4551A/Agilent Technologies 5975C / 7890A	G0444466534P/ F04345BI44/ US10323601 / CN10361158	HP Chemstation	HP Enviroquant	Organics; Volatiles	2010
GCMS-4D	Agilent Technologies 5975C / 7890A	US10237301 / CN10241019	HP Chemstation	HP Enviroquant	Organics; Volatiles	2010
GCMS-4V	Agilent Technologies 5975C/7890A/OI 4100/ 4660	Us13307901 / CN13331029	HP Chemstation	HP Enviroquant	Organics; Volatiles	2013
GCMS-A	Hewlett-Packard 6890 / 5973 MSD / OI 4552 / 4560 ARCHON	US00033272 / US94212183	HP Chemstation	HP Enviroquant	Organics; Volatiles	2000
GCMS-C	Hewlett-Packard 6890 / 5973 MSD / OI 4552 / 4560 ARCHON	2643A122671 / 2807A1146	HP Chemstation	HP Enviroquant	Organics; Volatiles	1990
GCMS-D	Hewlett-Packard 6890 / 5973 MSD / OI 4551 / 4560 ARCHON	US00030551 / US93122843	HP Chemstation	HP Enviroquant	Organics; Volatiles	2001
GCMS-E	Hewlett-Packard 6890 / 5973 MSD / OI 4551 / 4560	US00031161 / US93112044	HP Chemstation	HP Enviroquant	Organics; Volatiles	2001



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GCMS-G	Hewlett-Packard 5890ll / 5970 MSD / OI 4552 / 4660	2919A22540 / 2807A11004	HP Chemstation	HP Enviroquant	Organics; Volatiles	1989
Equipment (OrganicsLab)	Manufacturer & Description	Serial Number	Operating System	Data Processing Software	Location	Purchase
GCMS-I	Hewlett-Packard 5890 / 5970 MSD / OI 4551 / 4560	2623A08318 / 2637A01687	HP Chemstation	HP Enviroquant	Organics; Volatiles	1986
GCMS-J	Hewlett-Packard 5890 / 5970 MSD / OI 4552 / 4560 P&T	2643A11557 / 3034A12779	HP Chemstation	HP Enviroquant	Organics; Volatiles	1990
GCMS-K	Hewlett-Packard 5890l1 / 5970 MSD / OI 4551 / 4560 P&T	2750A116838 / 2905A11628	HP Chemstation	HP Enviroquant	Organics; Volatiles	1990
GCMS-N	Hewlett-Packard 5890 / 5970 MSD / Tekmar 2000 / 2032 P&T	2750A17088 / 2716A10218	HP Chemstation	HP Enviroquant	Organics; Volatiles	1988
GCMS-S	Hewlett-Packard 6890 / 5973 MSD /OI 660 ARCHON	US00024322 / US82311313 / H216466453P / 13295	HP Chemstation	HP Enviroquant	Organics; Volatiles	2000
GCMS-T	Hewlett-Packard 6890 / 5973 MSD / OI 4551A / 4660 P&T	US00024323 / US82311482	HP Chemstation	HP Enviroquant	Organics; Volatiles	2000
GCMS-U	Hewlett-Packard 6890 / 5973 MSD / HP 4551A / 4660	US00032623 / US94212203	HP Chemstation	HP Enviroquant	Organics; Volatiles	1999
GCMS-V	Agilent Technologies 5973 / 6890N AS 4552 / 4560	US10149085 / US10441917	HP Chemstation	HP Enviroquant	Organics; Volatiles	2002
GCMS-X	Agilent Technologies 5973 / 6890N AS 4552 / 4660	US21843889 / US10239071	HP Chemstation	HP Enviroquant	Organics; Volatiles	2002
GCMS-Y	Agilent Technologies 5973 / 6890N AS 4552 / 4560	US10240013 / US21844012	HP Chemstation	HP Enviroquant	Organics; Volatiles	2002
GC-PF	Agilent Technologies 6890N AS 4552 / 4560	US10235024 / 12995 / J542460192	HP Chemstation	HP Enviroquant	Organics; Volatiles	2002
PH Meter-13	VWR IS B20	5942	None	None	Sample Management	2010
Balance- Top Load (B-33)	Ohaus Adventure AV412 (B-33)	8028391184	None	None	Sample Management	2007
Balance- Top Load (B-30)	Ohaus Adventurer AV412 (B-30)	8026391160	None	None	Screen	2005

# **APPENDIX D**

#### Hess Corporation Port Reading Terminal 750 Cliff Road Port Reading, New Jersey Monthly Groundwater Gauging Table - 2nd Quarter 2020

Well I.D.	Date	Time	Depth to LNAPL (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	DTB from TOC (ft)	TOC Elevation (ft)	Water Elevation (LNAPL Corrected Where Applicable, ft)	PID	Notes
PL-1RR	4/17/2020 5/21/2020	9:31 NM		0.20 1.23		14.88 NM	7.36 7.36	7.16 6.13	1.2 6.5	Sheen, Sock absorbed, replaced sock Sheen, Sock absorbed, replaced sock
PL-2	6/18/2020 4/17/2020 5/21/2020	10:25 9:50 NM		1.00 1.70 1.95	  	14.50 16.88 NM	7.36 9.58 9.58	6.36 7.88 7.63	1.0 1.1 2.1	Sheen, Sock absorbed, replaced sock Sock clean, iron like color 1/4 sock Globules, replaced sock
	6/18/2020 4/17/2020	10:40 10:05		1.94 3.79		16.79 19.03	9.58 10.16	7.64 6.37	0.0	Sock clean, iron like color 1/4 sock
PL-3R	5/21/2020 6/18/2020	NM 10:18		3.77 3.66		19.00 19.30	10.16 10.16	6.39 6.50	22.3 8.1	
PL-4RR	4/17/2020 5/21/2020 6/18/2020	10:45 NM 10:58		4.45 4.83 4.73		13.57 11.50 11.80	11.56 11.56 11.56	7.11 6.73 6.83	0.0 0.0 0.0	
PL-5R	4/17/2020 5/21/2020	10:24 NM		0.35 1.20		9.80 NM	6.54 6.54	6.19 5.34	29.6 30.2	Sheen, sock fully absorbed, replaced sock, no globules/LNAPL Sheen, sock fully absorbed, replaced sock, no globules/LNAPL
	6/18/2020 4/17/2020	10:53 10:00	1.50	1.70	0.20	9.80 15.05	6.54 6.88	5.00 5.78	28.6	Measureable LNAPL, replaced sock
PL-6RR	5/21/2020 6/18/2020	NM 11:00		1.20 3.47		15.00 15.00	6.88 6.88	5.68 3.41	0.0	
PL-7	4/17/2020 5/21/2020 6/18/2020	10:50 NM 11:20		4.81 Dry 4.82		5.01 5.01 5.01	10.75 10.75 10.75	5.94 Dry 5.93	0.0 0.0 0.0	Dry, mud at bottom Dry, mud at bottom Dry, mud at bottom
PL-8R	4/17/2020 5/21/2020	10:55 NM		4.08 4.22		22.00	9.91 9.91	5.83 5.69	0.3	Dry, mad at bottom
	6/18/2020 4/17/2020	11:15 9:27		4.65 2.06		22.20 20.40	9.91 9.11	5.26 7.05	0.0 0.3	
PL-9R	5/21/2020 6/18/2020	NM 10:22		2.23		20.20 NM	9.11 9.11	6.88 6.91	0.0	
TF-1	4/17/2020 5/21/2020 6/18/2020	11:05 NM NM		2.56 3.00 NM		12.10 NM NM	8.60 8.60 8.60	6.04 5.60 NM	21.6 3.7 NM	Sock clean, light orange Globules, replaced sock Could not access
TF-2	4/17/2020 5/21/2020	14:52 NM		1.62 1.55		11.80 NM	7.50 7.50	5.88 5.95	37.2 44.0	Replaced sock, light sheen
	6/18/2020 4/17/2020	NM 10:58		NM 2.31		NM 11.80	7.50 8.58	NM 6.27	NM 0.0	Could not access
TF-3	5/21/2020 6/18/2020	NM NM		3.00 NM		11.80 11.80	8.58 8.58	5.58 NM 9.50	0.0 NM 88.2	Could not access
TM-6R	4/17/2020 5/21/2020 6/18/2020	9:55 NM 10:10		4.76 5.41 5.45		20.40 NM 20.20	14.26 14.26 14.26	9.50 8.85 8.81	88.2 85.5 18.0	Sock clean, light orange Replaced sock, light sheen
TM-7	4/17/2020 5/21/2020	9:13 NM		6.82 6.63		21.80 NM	14.81 14.81	7.99 8.18	58.9 81.0	Sock black bottom 8th, Slight sheen, Replace sock Globules, replaced sock
TD :-	6/18/2020 4/17/2020	10:04 12:00		7.06 6.15		22.00 15.00	14.81 13.68	7.75 7.53	22.8 0.0	Sock black bottom 8th, Slight sheen, Replace sock
TR-1R	5/21/2020 6/18/2020 4/17/2020	NM 13:35 13:10		6.34 6.63 0.20		14.90 15.10 20.00	13.68 13.68 12.47	7.34 7.05 12.27	0.0 0.2 110.0	Sheen Sheen
TR-2R	5/21/2020 6/18/2020	NM 13:42		0.25 0.20		19.80 20.30	12.47 12.47 12.47	12.27 12.22 12.27	40.0	Sheen, replaced sock Sheen and globules on surface, Placed Sock
TR-3RR	4/17/2020 5/21/2020	8:38 NM		2.30 2.77		15.10 14.50	9.63 9.63	7.33 6.86	0.2	
TD 0D	6/18/2020 4/17/2020	9:25 8:20		3.12 2.14		15.08 27.74	9.63 9.33	6.51 7.19	0.0 117.2	
TR-3D	5/21/2020 6/18/2020 4/17/2020	9:19 8:28		2.37 2.70 3.21		24.80 24.40 60.10	9.33 9.33 9.59	6.96 6.63 6.38	233.0 136.0 0.5	
TR-3DD	5/21/2020 6/18/2020	NM 9:22		3.23 3.48		60.20	9.59 9.59	6.36 6.11	0.0	
TR-4D	4/17/2020 5/21/2020	NM NM		NM 2.35		NM 24.10	12.18 12.18	NM 9.83	0.0	Covered by Truck
TD 4D	6/18/2020 4/17/2020	13:48 NM		2.75 NM		24.80 NM	12.18 12.48	9.43 NM	8.5 153.0	Covered by Truck
TR-4R	5/21/2020 6/18/2020 4/17/2020	NM 13:58 NM		1.52 1.81 NM		13.68 13.90 NM	12.48 12.48 12.58	10.96 10.67 NM	11.5 178.8 0.2	Covered by Truck
TR-4DD	5/21/2020 6/18/2020	NM 14:00		5.63 5.86		56.54 57.60	12.58 12.58	6.95 6.72	0.0	20.00a 27as.k
TR-5	4/17/2020 5/21/2020	8:30 NM		3.66 3.77		10.50 10.50	11.99 11.99	8.33 8.22	110.0 135.0	
TR-5D	6/18/2020 4/17/2020 5/21/2020	9:42 8:35 NM		3.93 4.96 5.16	  	10.50 22.64 22.80	11.99 11.57 11.57	8.06 6.61 6.41	115.0 314.8 68.0	
111.05	6/18/2020 4/17/2020	9:40 8:42		5.38 6.13		22.80 60.13	11.57 11.28	6.19 5.15	438.0 0.1	
TR-5DD	5/21/2020 6/18/2020	NM 9:37		5.02 5.17		60.70 60.20	11.28 11.28	6.26 6.11	0.0 12.2	
TR-6	4/17/2020 5/21/2020 6/18/2020	8:50 NM 9:50		3.58 3.81 4.15		12.70 12.90	10.78 10.78 10.78	7.20 6.97 6.63	0.0 0.0 0.0	
TR-6D	4/17/2020 5/21/2020	8:53 NM		4.15 4.10 4.26		12.80 29.00 29.20	10.78 10.81 10.80	6.71 6.54	0.0	
	6/18/2020 4/17/2020	9:48 11:40		4.49 5.31		29.20 7.40	10.81 12.62	6.32 7.31	0.0	
TR-Sump-1	5/21/2020 6/18/2020	NM 13:28		5.34 5.36		7.35 7.50	12.62 12.62	7.28 7.26	0.0 2.2	
TR-Sump-2	4/17/2020 5/21/2020 6/18/2020	11:37 NM 13:25		4.99 5.05 5.06		7.20 7.15 7.20	12.35 12.35 12.35	7.36 7.30 7.29	1.1 13.2 0.0	
Interceptor	4/17/2020 05/2020	11:33 NM	0.35	NM NM		5.00 5.00	NA NA	NA NA	NA NA	
Trench	6/18/2020 4/17/2020	13:24 9:08	NM 	NM 7.40		5.00 NA	NA -0.11	NA 7.51	NA NA	
DB-SW	05/2020 6/18/2020	NM 9:00		NM 6.00		NA NA NA	-0.11 -0.11 -0.31	NM 6.11 0.71	NA NA NA	
LN-SW	4/17/2020 05/2020 6/18/2020	12:30 NM 13:07		0.40 NM 2.50		NA NA NA	-0.31 -0.31 -0.31	0.71 NM 2.81	NA NA NA	
L1-SW	4/17/2020 05/2020	12:21 NM		0.30 NM		NA NA	-0.20 -0.20	0.50 NM	NA NA	
F* :	6/18/2020 04/2020	12:55 NM		0.50 NM		NA NM	-0.20 10.02	0.70 NM	NA NM	
FA-1	5/21/2020 6/18/2020 04/2020	NM 12:19:00 PM NM		2.99 3.55 NM		13.00 12.80 NM	10.02 10.02 10.76	7.03 6.47 NM	0.0 0.0 NM	
FA-2	5/21/2020 6/18/2020	NM 12:10:00 PM		4.16 6.08		13.50 13.70	10.76 10.76 10.76	6.60 4.68	0.0 0.0	
FA-3	04/2020 5/21/2020	NM NM		NM 8.64		NM 14.58	11.28 11.28	NM 2.64	NM 4.0	
FA .	6/18/2020 04/2020 5/21/2020	12:05:00 PM NM		8.96 NM		14.80 NM	11.28 11.39	2.32 NM	1.1 NM	
FA-4	5/21/2020 6/18/2020 04/2020	NM 11:57:00 AM NM		8.93 9.19 NM		14.50 14.70 NM	11.39 11.39 10.53	2.46 2.20 NM	0.0 0.0 NM	
FA-5	5/21/2020 6/18/2020	NM 11:40:00 AM		6.21 7.43		NM NM	10.53 10.53	4.32 3.10	3.8 8.2	Globular Product in well. Not measureable. Sock Installed Sock Saturated, globules on surface
FA-6	04/2020 5/21/2020	NM NM		NM 6.95		NM 12.30	12.46 12.46	NM 5.51	NM 0.0	Very Silty, DTB not same as well record
F	6/18/2020 04/2020	12:30:00 PM NM		9.47 NM		18.40 NM	12.46 10.94	2.99 NM	0.0 NM	
FA-7	5/21/2020 6/18/2020 04/2020	NM 12:35:00 PM NM	  NA	9.24 8.56 NM	  NA	18.40 18.80 NA	10.94 10.94 -6.11	1.70 2.38 NM	0.0 0.0 NA	
SC-1	04/2020 05/2020 6/18/2020	NM NM 2:25:00 PM	NA NA NA	NM NM NM	NA NA NA	NA NA NA	-6.11 -6.11 -6.11	NM NM NM	NA NA NA	Could not read
SC-1A	04/2020 05/2020	NM NM	NA NA	NM NM	NA NA	NA NA	-1.10 -1.10	NM NM	NA NA	2000 101.000
25 :	6/18/2020 04/2020	2:30:00 PM NM	NA NA	2.20 NM	NA NA	NA NA	-1.10 -1.64	3.30 NM	NA NA	
SC-2	05/2020 6/18/2020	NM 2:30:00 PM	NA NA	NM 0.50	NA NA	NA NA	-1.64 -1.64	NM 2.14	NA NA	

Well I.D.	Date	Depth to LNAPL (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	DTB from TOC (ft)	TOC Elevation (ft amsl)	Groundwater Elevation (ft amsl)	PID	Notes
	7/28/2020	-	1.00	-	14.88	7.36	6.36	5.4	Discontinuous Sheen, Sock fully absorbed, Replaced sock
PL-1RR	8/25/2020	-	0.99	-	14.50	7.36	6.37	29.9	Discontinuous Sheen, Sock fully absorbed, Replaced sock
	9/22/2020	-	1.54	-	14.80	7.36	5.82	8.5	Discontinuous Sheen, Sock fully absorbed, Replaced sock
	7/28/2020	-	1.83	-	17.00	9.58	7.75	2.3	
PL-2	8/25/2020	-	1.73	-	16.90	9.58	7.85	0.3	
	9/22/2020	-	1.92	-	16.88	9.58	7.66	0.7	
	7/28/2020	-	3.35	-	18.90	10.16	6.81	5.3	
PL-3R	8/25/2020	-	3.38	-	18.80	10.16	6.78	0.0	
	9/22/2020	-	3.72	-	18.80	10.16	6.44	28.8	
	7/28/2020	-	3.62	-	13.50	11.56	7.94	0.0	
PL-4RR	8/25/2020	-	3.64	-	13.80	11.56	7.92	0.0	
	9/22/2020	-	4.54	-	13.50	11.56	7.02	0.0	Characteristic characteristic and analysis INADI
PL-5R	7/28/2020	4.5	0.20	0.7	9.80	6.54	6.34	55.4	Sheen, sock fully absorbed, replaced sock, LNAPL
PL-5K	8/25/2020	1.5	2.20	0.7	9.80	6.54	4.91	95.8	LNAPL, Sheen in well head, sock fully absorbed, replaced sock
	9/22/2020	1.65	1.90	0.25	9.80	6.54	4.85	25.8	LNAPL, Sheen in well head, sock fully absorbed, replaced sock
PL-6RR	7/28/2020		0.89		15.00	6.88	5.99	0.2	
PL-OKK	8/25/2020	-	1.02	-	15.00	6.88	5.86	0.0	
	9/22/0220 7/28/2020				15.00	6.88	5.66		
PL-7		-	NM	-	5.01	10.75	NM	0.0	
FL-/	8/25/2020 9/22/2020	-	NM NM	-	5.01	10.75 10.75	NM NM	0.0	
		-		-		+			
PL-8R	7/28/2020 8/25/2020	-	4.00 4.27	-	21.70 21.70	9.91 9.91	5.91 5.64	0.0	
FL-ON	9/22/2020	-	4.60	-	21.70	9.91	5.31	0.0	
		-		-	20.10		7.26		
PL-9R	7/28/2020		1.85 1.88	-	20.10	9.11 9.11	7.26	0.0	
FL-3N	8/25/2020 9/22/2020	-	2.41	-	20.20	9.11	6.70	0.0	
	7/28/2020	-	2.41	-	12.10	8.60	6.14	103.1	Discontinuous Sheen, Replaced Sock
TF-1	8/25/2020	-	2.80		12.10	8.60	5.80	60.3	Discontinuous Sheen, Replaced Sock
11-1	9/22/2020		2.80	-	12.10	8.60	5.79	57.2	Discontinuous Sheen, Replaced Sock
	7/28/2020		1.40	-	11.60	7.50	6.10	35.4	Discontinuous Sheen, Replaced Sock
TF-2	8/25/20202		1.82		11.60	7.50	5.68	70.5	Discontinuous Sheen, Replaced Sock
11 2	9/22/2020	-	1.90	-	11.60	7.50	5.60	28.4	Discontinuous Sheen, Replaced Sock
	7/28/2020	-	2.20	-	11.75	8.58	6.38	0.0	Discontinuous sileen, Repiaced sock
TF-3	8/25/2020	-	2.66	-	11.75	8.58	5.92	23.7	
	9/22/2020	-	2.79	_	11.80	8.58	5.79	5.5	
	7/28/2020	-	5.00	-	19.75	14.26	9.26	71.7	
TM-6R	8/25/2020	-	5.10	-	20.00	14.26	9.16	110.0	
	9/22/2020	-	5.52	-	19.80	14.26	8.74	89.1	
	7/28/2020	-	8.35	-	21.45	14.81	6.46	74.5	Sock black bottom, Slight sheen
TM-7	8/25/2020	-	6.94	-	21.45	14.81	7.87	94.2	Sock black 1/4, Slight sheen
	9/22/2020	-	8.14	-	21.40	14.81	6.67	95.1	Sock black 1/4, Slight sheen
	7/28/2020	-	6.57	-	15.00	13.68	7.11	0.0	
TR-1R	8/25/2020	-	6.60	-	15.10	13.68	7.08	0.0	
	9/22/2020	-	6.77	-	15.00	13.68	6.91	0.0	
	7/28/2020	-	0.20	-	20.00	12.47	12.27	122.3	heavy sheen, replaced Sock
TR-2R	8/25/2020	-	0.00	-	20.30	12.47	12.47	91.8	Sheen
	9/22/2020	-	0.00	-	19.90	12.47	12.47	77.5	Sheen
	7/28/2020	-	3.00	-	14.65	9.63	6.63	0.0	
TR-3RR	8/25/2020		3.04	-	14.65	9.63	6.59	0.0	
	9/22/2020	-	3.12	-	14.65	9.63	6.51	0.0	
	7/28/2020	-	2.82	-	24.50	9.33	6.51	156.6	
TR-3D	8/25/2020	-	3.76	-	24.45	9.33	5.57	121.2	
	9/22/2020	-	3.34	-	24.40	9.33	5.99	14.6	
	7/28/2020	-	3.54	-	59.20	9.59	6.05	0.7	
TR-3DD	8/25/2020	-	3.66	-	59.20	9.59	5.93	0.0	
	9/22/2020	-	3.69	-	59.20	9.59	5.90	0.6	
	7/28/2020	-	0.80	-	13.60	12.48	11.68	162.4	Sheen
TR-4D	8/25/2020	-	0.00	-	13.50	12.48	12.48	155.7	Sheen
	9/22/2020	-	0.20	-	13.40	12.48	12.28	35.0	Sheen
	7/28/2020	-	3.10	-	24.10	12.18	9.08	7.0	
TR-4R	8/25/2020	-	4.22	-	24.00	12.18	7.96	4.0	
	9/22/2020	-	5.40	-	24.00	12.18	6.78	0.1	
	7/28/2020	-	5.85	-	56.50	12.58	6.73	0.2	
TR-4DD	8/25/2020	-	5.90	-	56.70	12.58	6.68	0.0	
	9/22/2020	-	6.02	-	56.70	12.58	6.56	0.1	

Well I.D.	Date	Depth to LNAPL (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	DTB from TOC (ft)	TOC Elevation (ft amsl)	Groundwater Elevation (ft amsl)	PID	Notes
	7/28/2020	-	4.00	-	10.65	11.99	7.99	241.5	
TR-5	8/25/2020	-	4.06	-	10.65	11.99	7.93	244.5	
	9/22/2020	-	4.50	-	10.70	11.99	7.49	160.2	
	7/28/2020	-	5.31	-	22.30	12.01	6.70	191.1	
TR-5D	8/25/2020	-	7.32	-	22.30	12.01	4.69	58.0	
	9/22/2020	-	5.43	-	22.30	12.01	6.58	8.2	
TD FDD	7/28/2020	-	5.12	-	59.00	11.64	6.52	1.8	
TR-5DD	8/25/2020	-	5.10 5.22	-	59.05	11.64	6.54 6.42	0.0 3.7	
	9/22/2020 7/28/2020	-	4.06	-	59.30 12.80	11.64 10.78	6.72	31.6	
TR-6	8/25/2020	-	4.16	-	12.60	10.78	6.62	0.0	
11.0	9/22/2020	-	4.42	_	12.60	10.78	6.36	0.0	
	7/28/2020	-	4.45	-	28.00	10.81	6.36	0.0	
TR-6D	8/25/2020	-	4.46	-	28.00	10.81	6.35	0.0	
•=	9/22/2020	-	4.54	-	28.10	10.81	6.27	0.0	
	7/28/2020	-	5.32	-	7.30	12.62	7.30	0.0	
TR-Sump-1	8/25/2020	-	6.12	-	7.30	12.62	6.50	0.0	
	9/22/2020	-	5.40	-	7.30	12.62	7.22	0.0	
	7/28/2020	-	6.00	-	7.20	12.35	6.35	0.7	
TR-Sump-2	8/25/2020	-	5.03	-	7.20	12.35	7.32	0.0	
	9/22/2020	-	5.06	-	7.20	12.35	7.29	0.0	
Interceptor	7/28/2020	0.50	-	-	5.00	-	1	-	
Trench	8/25/2020	1.6	-	-	5.00	-	-	-	
	9/22/2020	0.80	-	-	5.00	-	-	-	
	7/28/2020	-	6.00	-	-	1.08	4.92	-	
DB-SW	8/25/2020	-	6.20	-	-	1.08	5.12	-	
	9/22/2020	-	6.40	-	-	1.08	5.32	-	
LNI CIA/	7/28/2020	-	1.25	-	-	-0.31	1.56	-	
LN-SW	8/25/2020	-	1.20	-	-	-0.31	1.51	-	
	9/22/2020 7/28/2020	-	1.00 0.50	-	-	-0.31 -0.20	1.31 0.70	-	
L1-SW	8/25/2020	-	0.50	-		-0.20	0.70	-	
22 0 11	9/22/2020	-	0.30	-	-	-0.20	0.50	_	
	7/28/2020	-	0.00	-	-	-6.11	6.11	-	
SC-SG-1	8/25/2020	-	0.20	-	-	-6.11	6.31	-	
	9/22/2020	-	0.40	-	-	-6.11	6.51	-	
	7/28/2020	-	0.00	-	-	-1.10	1.10	-	
SC-SG-1A	8/25/2020	-	0.20	-	-	-1.10	1.30	-	
	9/22/2020	-	0.20	-	-	-1.10	1.30	-	
	7/28/2020	-	0.20	-	-	-1.64	1.84	-	
SC-SG-2	8/25/2020	-	0.00	-	-	-1.64	1.64	-	
	9/22/2020	-	0.50	-	-	-1.64	2.14	-	
	7/28/2020	-	NM	-	12.80	9.67	NM	0.0	
FA-1	8/25/2020	-	3.25	-	12.05	9.67	6.42	0.0	
	9/22/2020	-	3.72	-	12.00	9.67	5.95	0.1	
54.0	7/28/2020	-	NM	-	13.70	10.39	NM	0.0	
FA-2	8/25/2020	-	4.09	-	13.40	10.39	6.30	0.0	
	9/22/2020	-	4.73	-	13.40	10.39	5.66	0.1	
FA-3	7/28/2020	-	8.45 8.58	-	14.50	10.84	2.39	0.0	
rA-3	8/25/2020 9/22/2020	-	8.58 8.70	-	14.50 14.50	10.84 10.84	2.26 2.14	3.7	
	7/28/2020	-	8.70	-	14.50	10.84	2.14	0.0	
FA-4	8/25/2020	-	8.80	-	14.50	10.98	2.28	0.0	
	9/22/2020	-	8.93	-	14.50	10.98	2.05	10.9	
	7/28/2020	-	7.76	-	14.50	10.22	2.46	12.7	Discontinuous Sheen, Replaced Sock
FA-5	8/25/2020	-	7.90	-	14.50	10.22	2.32	3.3	Discontinuous Sheen, Replaced Sock
	9/22/2020	-	8.06	-	14.50	10.22	2.16	5.7	Discontinuous Sheen, Replaced Sock
	7/28/2020	-	9.47	-	18.40	12.13	2.66	0.0	
FA-6	8/25/2020	-	10.15	-	18.00	12.13	1.98	0.1	
	9/22/2020	-	10.22	-	18.00	12.13	1.91	0.0	
	7/28/2020	-	8.56	-	15.80	10.14	1.58	0.0	
FA-7	8/25/2020	-	8.86	-	18.05	10.14	1.28	0.0	
	9/22/2020	-	9.05	-	18.00	10.14	1.09	0.0	

					-	Groundwa	ter Gauging Da	ata	
Well I.D.	Date	Depth to LNAPL (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	DTB from TOC (ft)	TOC Elevation (ft amsl)	Groundwater Elevation (ft amsl)	PID	Notes
	10/5/2020	-	1.30	-	14.88	7.36	6.06	1.1	Discontinuous Sheen, Replaced sock
PL-1RR	11/30/2020	-	0.00	-	14.50	7.36	7.36	0.0	Discontinuous Sheen, Replaced sock
	12/16/2020	-	0.80	-	14.80	7.36	6.56	10.6	Discontinuous Sheen, Sock 1/8 absorbed*
	10/5/2020	-	2.00	-	17.00	9.58	7.58	1.8	Orange Rust On Sock, Replaced Sock
PL-2	11/30/2020	-	1.35	-	16.90	9.58	8.23	0.0	
	12/16/2020	-	1.72	-	16.88	9.58	7.86	1.2	
PL-3R	10/5/2020	-	3.94 2.59	-	19.20 18.80	10.16 10.16	6.22 7.57	111.3 0.0	
PL-3N	11/30/2020 12/16/2020	-	3.84	-	18.80	10.16	6.32	0.0	
	10/5/2020	-	3.65		13.70	11.56	7.91	0.0	
PL-4RR	11/30/2020	-	3.36	-	13.80	11.56	8.20	0.0	
	12/16/2020	-	3.50	-	13.50	11.56	8.06	0.0	
	10/5/2020	1.80	1.50	0.30	9.80	6.54	5.04	55.4	Sheen, replaced sock, LNAPL
PL-5R	11/30/2020	-	1.55	-	9.80	6.54	4.99	95.8	Sheen in well head, replaced sock
	12/16/2020	-	1.30	-	9.80	6.54	5.24	10.8	Sheen in well head, sock 1/3 absorbed*
	10/5/2020	-	1.35	-	15.00	6.88	5.53	7.0	
PL-6RR	11/30/2020	-	NM	-	15.00	6.88	NA	NA	Underwater
	12/16/2020	-	2.30	-	15.00	6.88	4.58	0.0	
	10/5/2020	-	NM	-	5.01	10.75	NM	0.0	Dammaged Well
PL-7	11/30/2020	-	NM	-	5.01	10.75	NM	0.0	Dammaged Well
	12/16/2020	-	NM	-	5.01	10.75	NM	0.0	Dammaged Well
	10/5/2020	-	4.60	-	21.70	9.91	5.31	0.0	
PL-8R	11/30/2020	-	3.82	-	21.70	9.91	6.09	0.0	
	12/16/2020	-	4.34	-	21.70	9.91	5.57	0.0	
DI OD	10/5/2020	-	2.56	-	20.30	9.11	6.55	7.0	
PL-9R	11/30/2020 12/16/2020	-	1.60 2.44	-	20.20	9.11 9.11	7.51 6.67	0.0	
	10/5/2020	-	2.44	-	12.10	8.60	5.93	10.5	Discontinuous Sheen, Light Brown/Orange Color, Sock 1/4 Absorbed
TF-1	11/30/2020	-	2.13		12.10	8.60	6.47	0.4	Discontinuous Sheen, Replaced Sock
	12/16/2020	_	2.75	_	12.10	8.60	5.85	0.0	Discontinuous Sheen, Sock 1/4 Absorbed
	10/5/2020	-	1.81	-	11.60	7.50	5.69	34.5	Discontinuous Sheen, Sock 1/4 Absorbed
TF-2	11/30/2020	-	1.55	-	11.60	7.50	5.95	8.1	Discontinuous Sheen, Replaced Sock
	12/16/2020	1.75	1.72	0.03	11.60	7.50	5.78	28.4	LNAPL, Replaced Sock*
	10/5/2020	-	2.58	-	11.75	8.58	6.00	1.2	
TF-3	11/30/2020	-	1.63	-	11.75	8.58	6.95	1.1	
	12/16/2020	-	2.18	-	11.80	8.58	6.40	2.8	
	10/5/2020	-	5.77	-	19.75	14.26	8.49	1500.0	Sock 1/4 absorbed , light orange
TM-6R	11/30/2020	-	4.83	-	20.00	14.26	9.43	4.3	Sock 1/4 absorbed , light orange and black
	12/16/2020	-	5.11	-	19.80	14.26	9.15	75.6	Sock 1/4 absorbed , light orange and black
	10/5/2020	-	7.23	-	21.45	14.81	7.58	36.8	Sock black bottom, Slight sheen
TM-7	11/30/2020	-	6.60	-	21.45	14.81	8.21	18.1	Sock 1/4 absorbed, Slight sheen
	12/16/2020	-	7.04	-	21.40	14.81	7.77	69.4	Sock absorbed 1/4
TR-1R	10/5/2020	-	6.97	-	16.00	13.68	6.71	0.0	
I K-TK	11/30/2020 12/16/2020	-	6.65 6.47		15.10 15.00	13.68 13.68	7.03 7.21	0.0	
	10/5/2020	-	0.00	_	20.00	12.47	12.47	122.3	Rust sheen, replaced Sock
TR-2R	11/30/2020	-	NM	-	20.30	12.47	NM	NA	Underwater
**	12/16/2020	-	0.00	-	19.90	12.47	12.47	20.0	Rust Sheen, Sock 1/3 abosorbed
	10/5/2020	-	3.20	-	14.80	9.63	6.43	0.0	
TR-3RR	11/30/2020	-	1.90	-	14.65	9.63	7.73	1.8	
	12/16/2020	-	2.49	-	14.65	9.63	7.14	0.0	
	10/5/2020	-	3.28	-	24.48	9.33	6.05	78.2	
TR-3D	11/30/2020	-	0.10	-	24.45	9.33	9.23	23.8	
	12/16/2020	-	0.10	-	24.40	9.33	9.23	0.0	
	10/5/2020	-	3.74	-	60.20	9.59	5.85	3.5	
TR-3DD	11/30/2020	-	3.05	-	59.20	9.59	6.54	0.0	
	12/16/2020	-	3.29	-	59.20	9.59	6.30	0.0	
TD	10/5/2020	-	5.56	-	13.60	12.48	6.92	162.4	Under 1
TR-4D	11/30/2020	-	NM	-	13.50	12.48	NM	NA NA	Underwater
	12/16/2020	-	NM	-	13.40	12.48	NM	NA 1500.0	Underwater
TR-4R	10/5/2020	-	0.90	-	13.80	12.18	11.28	1500.0	Hadarustar
1 K-4K	11/30/2020	-	NM 2.40	-	24.00	12.18	NM 9.78	NA 11.5	Underwater
	12/16/2020	-	2.40	-	24.00	12.18			
	10/5/2020	-	6.11 NM	-	57.55 56.70	12.58 12.58	6.47 NM	0.0 NA	Underwater
TR-4DD	11/20/2020								
TR-4DD	11/30/2020 12/16/2020	-	5.75	-	56.70	12.58	6.83	0.0	Onder water

Well I.D.	Date	Depth to LNAPL (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	DTB from TOC (ft)	TOC Elevation (ft amsl)	Groundwater Elevation (ft amsl)	PID	Notes
TR-5	11/30/2020	-	8.36	-	10.65	11.99	3.63	2.2	
	12/16/2020	-	4.10	-	10.70	11.99	7.89	0.0	
	10/5/2020	-	5.63	-	22.73	12.01	6.38	85.0	
TR-5D	11/30/2020	-	5.00	-	22.30	12.01	7.01	12.1	
	12/16/2020	-	5.12	-	22.30	12.01	6.89	5.2	
	10/5/2020	-	5.36	-	66.10	11.64	6.28	0.0	
TR-5DD	11/30/2020	-	4.75	-	59.05	11.64	6.89	0.0	
	12/16/2020	-	4.80	-	59.30	11.64	6.84	10.4	
	10/5/2020	-	4.41	-	13.10	10.78	6.37	0.0	
TR-6	11/30/2020	-	2.47	-	12.60	10.78	8.31	0.0	
	12/16/2020	-	3.79	-	12.60	10.78	6.99	0.0	
TD 60	10/5/2020	-	4.74	-	29.00	10.81	6.07	0.0	
TR-6D	11/30/2020	-	4.12	-	28.00	10.81	6.69	0.0	
	12/16/2020	-	4.32	-	28.10	10.81	6.49	0.0	
TD Common 1	10/5/2020	-	5.41 5.17	-	7.30 7.30	12.62 12.62	7.21 7.45	0.0	
TR-Sump-1	11/30/2020 12/16/2020	-	5.17	-	7.30	12.62	7.45	0.0	
		-	5.70	-	7.30	12.35	6.65	0.0	
TR-Sump-2	10/5/2020 11/30/2020	-	4.88	-	7.20	12.35	7.47	0.0	
TIX-Sump-2	12/16/2020	_	5.50		7.20	12.35	6.85	0.0	
	10/5/2020	1.70	5.50		5.00	-	-	-	
Interceptor	11/30/2020	1.6		-	5.00	_	-	_	
Trench	12/16/2020	1.20		_	5.00	_	-	_	
	10/5/2020	-	6.00	-	-	1.08	4.92	-	
DB-SW	11/30/2020	-	7.00	-	-	1.08	5.92	-	
	12/16/2020	-	6.50	-	-	1.08	5.42	-	
	10/5/2020	-	1.20	-	-	-0.31	1.51	-	
LN-SW	11/30/2020	-	1.25	-	-	-0.31	1.56	-	
	12/16/2020	-	1.10	-	-	-0.31	1.41	-	
	10/5/2020	-	0.80	-	-	-0.20	1.00	-	
L1-SW	11/30/2020	-	3.80	-	-	-0.20	4.00	-	
	12/16/2020	-	2.00	-	-	-0.20	2.20	-	
	10/5/2020		NA	-	-	-0.98	NA	-	Stream Gauge under water and not visable
SC-SG-1	11/30/2020	-	NA	-	-	-0.98	NA	-	Stream Gauge under water and not visable
	12/16/2020	-	NA	-	-	-0.98	NA	-	Stream Gauge under water and not visable
	10/5/2020	-	2.00	-	-	-1.10	0.90	-	
SC-SG-1A	11/30/2020	-	1.90	-	-	-1.10	0.80	-	
	12/16/2020	-	2.20	-	-	-1.10	1.10	-	
	10/5/2020	-	2.00	-	-	-1.64	0.36	-	
SC-SG-2	11/30/2020	-	2.10	-	-	-1.64	0.46	-	
	12/16/2020	-	3.00	-	- 42.05	-1.64	1.36	-	
FA 1	10/5/2020	-	3.78	-	12.05	9.67	5.89	0.0	
FA-1	11/30/2020	-	2.85	-	12.05	9.67	6.82	0.0	
	12/16/2020	-	2.80	-	12.00	9.67	6.87 5.33	0.0	
FA-2	10/5/2020 11/30/2020	-	5.06 3.46	-	13.40 13.40	10.39 10.39	5.33 6.93	0.0	
FA-2	12/16/2020	-	3.46	-	13.40	10.39	6.97	0.0	
	10/5/2020	-	8.97	-	14.50	10.39	1.87	3.4	
FA-3	11/30/2020	-	8.65	-	14.50	10.84	2.19	0.0	
171-3	12/16/2020	-	8.76		14.50	10.84	2.08	0.0	Discontinuous Sheen, Placed Sock*
	10/5/2020	-	9.20	-	14.50	10.98	1.78	1.4	Sissinitia as sinceri, i racca sock
FA-4	11/30/2020	-	NA	-	14.50	10.98	NA NA	NA	Underwater
	12/16/2020	-	8.90	-	14.50	10.98	2.08	0.0	
	10/5/2020	-	8.33	-	14.50	10.22	1.89	6.3	Discontinuous Sheen, Replaced Sock
FA-5	11/30/2020	-	NA	-	14.50	10.22	NA	NA	Underwater
	12/16/2020	-	7.45	-	14.50	10.22	2.77	0.0	Discontinuous Sheen, Replaced Sock*
	10/5/2020	-	10.20	-	18.00	12.13	1.93	1.7	
FA-6	11/30/2020	-	8.03	-	18.00	12.13	4.10	2.2	
	12/16/2020	-	7.14	-	18.00	12.13	4.99	0.0	
	10/5/2020	-	9.11	-	18.00	10.14	1.03	0.0	
FA-7	11/30/2020	-	9.06	-	18.05	10.14	1.08	0.0	
	12/16/2020	-	9.17	-	18.00	10.14	0.97	0.0	

Footnotes:  ${}^{\star}$  These monitoring wells will be gauged in two week intervals.



$( \cdot, \cdot ( \cdot ) \cdot )$	1		weather: 3 0	Personnel:		
4-57			Serial Number:	967		
			William Control of the Control of th		CHARLES AND SECURITION	
Temperature	(pH 4)	9/70(2)	Span Pt (pH 10)	8/31/22	Initial Check (must be within +/- 0.1 units or need to recalibrate)	4/20/JA
l 1	Initial Reading	Adjusted	Initial Peading		(pH 7 - acceptable range 6.9-7.1)	
					7.00	Recalibrate (Y/N
			The state of the s			N
	Zem Pt *	Jot / Eva Date				
	(pH 4)	9/30/22	(pH 10)	C/3// >x	or need to recalibrate)	Lot / Exp Date
Temperature	0 //	110			(pH 7 - acceptable range 6.8-7.2)	
	704	9.00	10.13	10,00	7,00	N
(Ambient Air)		(1.413 ms/cm)	5/31/01	(use 1.413 ms/cm - acceptable range 1.398 - 1.427 )		
Initial Reading	Adjusted	Initial Reading	Adjusted		Pacalibrate (V/M)	
0.665	().600	1.49	191	1.91	11	
	Waterman by the	STATE OF STATES	Turbidity	PARAMETER SERVICE CONSTRUCTION	A STATE OF THE STA	
		Span	Lot / Exp Date	Check - must be within +/- 10% or	Lot / Exp Date	
Zero	Lot / Exp Date	(100 NTU)	7/22/21	need to recalibrate (use 100 NTU - acceptable range 90		
Initial Reading	Lot / Exp Date  Adjusted	(100 NTU)	7/22/21	need to recalibrate (use 100 NTU - acceptable range 90 110 NTU)		
	Adjusted		7/22/21	need to recalibrate (use 100 NTU - acceptable range 90		
Initial Reading		(100 NTU)	7/22/21	need to recalibrate (use 100 NTU - acceptable range 90 110 NTU) Check Value		
Initial Reading	Adjusted	(100 NTU)	Adjusted	need to recalibrate (use 100 NTU - acceptable range 90 110 NTU) Check Value		
Initial Reading	Adjusted	(100 NTU)  Initial Reading	Adjusted	need to recalibrate (use 100 NTU - acceptable range 90 110 NTU) Check Value	Recalibrate (Y/N)	
Initial Reading  Zero (0% Solution)	Adjusted  Co  Lot / Exp Date	(100 NTU)  Initial Reading  LG 3	Adjusted  Adjusted  Lot / Exp Date	need to recalibrate  (use 100 NTU - acceptable range 90 110 NTU)  Check Value  / ② ©  Check - reading must be 0.3mg/L or	Recalibrate (Y/N)	
Initial Reading	Adjusted	(190 NTU)  Initial Reading  [4] 3  Dissolved Oxyg	Adjusted (O)	need to recalibrate  (use 100 NTU - acceptable range 90 110 NTU)  Check Value  /'O Co  Check - reading must be 0.3mg/L or less	Recalibrate (Y/N)	
	Temperature  Temperature  Zero (Ambient Air)	Zero Pt Temperature (pH 4)  Initial Reading  3.95  pH Zero Pt * (pH 4)  Temperature  4.09  Zero Lot / Exp Date (Ambient Air)  Initial Reading Adjusted	Temperature  (pH 4)  Initial Reading  Adjusted  3.95  PH 3 Hour Check (*2-poi  Zero Pt * Lot / Exp Date  (pH 4)  Temperature  Zero Pt * Lot / Exp Date  (pH 4)  Temperature  Zero Lot / Exp Date  (Ambient Air)  Lot / Exp Date  (1.413 ms/cm)	Temperature    Conductivity   Conduc	Temperature   Zero Pt   Lot / Exp Date   Span Pt   Lot / Exp Date	Temperature    Zero Pt



Serial Number: 048890 pH Zero Pt Lot / Exp Date Span Pt Lot / Exp Date Initial Check (must be within +/-Lot / Exp Date 064940 8/31/32 0.1 units or need to recalibrate) 06,1407 **Temperature** 9/30/22 Time (pH 4) (pH 10) 9/30/22 Adjusted (pH 7 - acceptable range 6.9-7.1) 14.55 Initial Reading Initial Reading Recalibrate (Y/N)\* 940 3.92 4.0 9.90 10.0 6.92 N pH 3 Hour Check (\*2-point calibration only needs to be conducted if check value is out of range) Zero Pt \* Lot / Exp Date Span Pt \* Lot / Exp Date Check (must be within +/-0.2 units Lot / Exp Date or need to recalibrate) Time (3 hr (pH 4) (pH 10) check) Temperature (pH 7 - acceptable range 6.8-7.2)

	a tel sa veg parties de la	12.62 MAP 是 6.66	Conductivity	AND AND THE ASSESSMENT OF THE PARTY OF	Early Company of the Company	
Zero (Ambient Air)	Lot / Exp Date	Span (1.413 ms/cm)	Lot / Exp Date	Check (must be within +/-1% or need to recalibrate)	Lot / Exp Date	
	3/31/4		3/31/21	(use 1.413 ms/cm - acceptable range 1.398 - 1.427 )	3131/21	
-		Initial Reading	Adjusted	Check Value	Recalibrate (Y/N)	
00004	0.0	1.5	1.41	1.42	A/	
		(Ambient Air) 3/3/4 Initial Reading Adjusted	(Ambient Air) (1.413 ms/cm)  Initial Reading Adjusted Initial Reading	Zero Lot / Exp Date Span Lot / Exp Date  (Ambient Air)	Zero Lot / Exp Date Span Lot / Exp Date Check (must be within +/-1% or need to recalibrate)  (Ambient Air) 3/3 1/2 / (use 1.413 ms/cm - acceptable range 1.398 - 1.427)  Initial Reading Adjusted Initial Reading Adjusted Check Value	

		CONTRACTOR STATE	Turbidity		Part of the second seco
Zero	Lot / Exp Date ZD1 302 Y8	Span (100 NTU)	Lot / Exp Date ZU29W73	Check - must be within +/- 10% or need to recalibrate	Lot / Exp Date
Talkal Bandlan	6/2/21	,	7/22/21	(use 100 NTU - acceptable range 90- 110 NTU)	
	Adjusted	Initial Reading	Adjusted	Check Value	Recalibrate (Y/N)
0.0	0.0	120	100	104	,,,,
	Zero Initial Reading	ZD1 302 YW  (/2/2) Initial Reading Adjusted	ZD1 302 Y% (100 NTU)  (/2/2) Initial Reading Adjusted Initial Reading	Zero   Lot / Exp Date   Span   Lot / Exp Date     ZD  302 18   (100 NTU)   Z0290073     (1/2/2)   7/22/2/     Initial Reading   Adjusted   Initial Reading   Adjusted     CD  302 18   (100 NTU)   Z0290073     Adjusted   Initial Reading   Adjusted     CD  302 18   (100 NTU)   Z0290073     Adjusted   Initial Reading   Adjusted     CD  302 18   (100 NTU)   Z0290073     Adjusted   Initial Reading   Adjusted     CD  302 18   (100 NTU)   Z0290073     Adjusted   Initial Reading   Adjusted     Adjusted   Initial Reading   Adjusted     Adjusted   Initial Reading   Adjusted     Adjusted   Initial Reading   Initial Reading   Adjusted     Adjusted   Initial Reading   Initial Reading   Initial Reading     Adjusted   Initial Reading   Initial Reading   Initial Reading     Adjusted   Initial Reading   Initial Reading   Initial Reading     Adjusted   Initial Reading   Initial Reading   Initial Reading     Adjusted   Initial Reading   Initial Reading   Initial Reading   Initial Reading     Adjusted   Initial Reading   Ini	Zero Lot / Exp Date Span Lot / Exp Date Check - must be within +/- 10% or need to recalibrate  ZD 302 Y8 (100 NTU) Z 27 27 (use 100 NTU - acceptable range 90- 110 NTU)  Initial Reading Adjusted Check Value

ero olution)	2019061245	Air Span	Lot / Exp Date	Check - reading must be 0.3mg/L o less
olution) i	, ,			
	2/24/21	(100%)		(0% Solution)
Reading	Adjusted	Check Value	Recalibrate (Y/N)	Check Value
F	Reading	Reading Adjusted		



Equipment: U-52 Job #/Name: Port Reading Weather: Clear 50° Personnel: RC

Serial Number: 046896/47027

		Zero Pt	Lot / Exp Date	Span Pt	Lot / Exp Date	Initial Check (must be within +/-	Lot / Exp Date	
Time	Temperature	(pH 4)	9/30/2022	(pH 10)	9/31/2022	0.1 units or need to recalibrate)	9/30/22 0GI615	
Time		(pn 4)	061407	(ph 10)	OGH940	(pH 7 - acceptable range 6.9-7.1)		
		Initial Reading	Adjusted	Initial Reading	Adjusted		Recalibrate (Y/N)	
920		3.93 /3.84	400/4.60	10.00/10.03	10.00/10.00	6.89/6.98 05	У	
		pH.	3 Hour Check (*2-point	calibration only needs	to be conducted if check value is o	ut of range)		
		Zero Pt *	Lot / Exp Date	Span Pt *	Lot / Exp Date	Check (must be within +/-0.2 units Lot / Exp Dat or need to recalibrate)		
Time (3 hr		(pH 4)		(pH 10)				
check)	Temperature					(pH 7 - acceptable range 6.8-7.2)		
						<u> </u>		

				Conductivity			
Time	Zero (Ambient Air)	Lot / Exp Date	Span (1.413 ms/cm)	Lot / Exp Date 3/31/21	Check (must be within +/-1% or need to recalibrate)	Lot / Exp Date	
	(Ambiene Am)	_	(2.425 ms/cm)	0GC232	(use 1.413 ms/cm - acceptable range 1.398 - 1.427 )		
	Initial Reading	Adjusted	Initial Reading	Adjusted	Check Value	Recalibrate (Y/N)	
933	0.000	0.550	1.56	1.7/	(4)	N	

				Turbidity		
Time	Zero	Lot / Exp Date	Span (100 NTU)	Lot / Exp Date 7/21/21	Check - must be within +/- 10% or need to recalibrate	Lot / Exp Date
Time	Initial Reading	Adiusted	Taitial Danding	20290073	(use 100 NTU - acceptable range 90-	Decelibrate (V/N)
0.0	C O	Adjusted	Initial Reading	Adjusted ( C O	Check Value	Recalibrate (Y/N)

	Not be the second of		Dissolved Oxy	gen	
Time	Zero (0% Solution)	Lot / Exp Date	Air Span (100%)	Lot / Exp Date	Check - reading must be 0.3mg/L of 1211 less (0% Solution)
	Initial Reading	Adjusted	Check Value	Recalibrate (Y/N)	Check Value
995	0 40	0.61)	99.4	N	



		Date: 2/2/2 Job #	Name: Port B	egdby Weather	1 closes AE		
Equipment:	4.51				173 po Personnel: AE		
		Zero Pt	Lot / Exp Date	Span Pt	Lot / Exp Date	Table Chack (much be 1911)	
Time	Temperature	(pH 4)	9/3/22	(pH 10)	8/31/23	Initial Check (must be within +/- 0.1 units or need to recalibrate)	Lot / Exp Date
-		Initial Reading	Adjusted	Initial Reading		(pH 7 - acceptable range 6.9-7.1)	
(:0.	16/6	3.71	4.60	9.13	Adjusted		Recalibrate (Y/N)*
	G	THE RESERVE THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER.	the second second second second second	A STATE OF THE PARTY OF THE PAR	10.00	7.00	$\sim$
		Zero Pt *	Lot / Exp Date	Span Pt *	eds to be conducted if check value is ou		
Time (3 hr	Tommonton	(pH 4)	LOCY EXP DATE	(pH 10)	Lot / Exp Date	Check (must be within +/-0.2 units or need to recalibrate)	Lot / Exp Date
11510	Temperature	460	4.00	11.41		(pH 7 - acceptable range 6.8-7.2)	
10,70	16.20	7.08	7.00	4.97	10.00	7.60	N
Time	Zero (Ambient Air)	Lot / Exp Date	Span (1.413 ms/cm)	Conductivity  Lot / Exp Date  3/31/2 \lambda	Check (must be within +/-1% or need to recalibrate)  (use 1.413 ms/cm - acceptable	Lot / Exp Date	
	Initial Reading	Adjusted	Initial Reading	4/200	range 1.398 - 1.427 )		
8.07	0.012	0. G = 0	1.60	Adjusted (; ) (	Check Value	Recalibrate (Y/N)	
		0.000	1.00	1. 12	(.0.	N	
		N-45 (1) (1) (1)	Hamilton Spranger	Turbidity	TALLES AND CONTRACTOR OF THE C		
Time	Zero	Lot / Exp Date	Span (100 NTU)	Lot / Exp Date	Check - must be within +/- 10% or need to recalibrate (use 100 NTU - acceptable range 90- 110 NTU)	,,	
P-11	Initial Reading	Adjusted	Initial Reading	Adjusted	Check Value	Recalibrate (Y/N)	
8, 6	0.0	0.9	9.7.0	100	100	V	
							- 11 1
		Lot / Exp Date	Dissolved Oxy	NAME AND ADDRESS OF TAXABLE PARTY.	est age, states a second to a constitution of		
Time	Zero (0% Solution)	cot / Exp Date	Air Span (100%)	J/24/31	Check - reading must be 0.3mg/L or less		
	Initial Reading	Adjusted	Check Value	Recalibrate (Y/N)	(0% Solution)		
8119	Op.	2. 9	(6)	Recalibrate (Y/N)	Check Value		



Date: 12/2/2010b #/Name: Part Rending Weather: Clear 3bs 140 Personnel: TP

Equipment: U-5000 / U-52

Serial Number: 048912 / 048911

					pH		
		Zero Pt	Lot / Exp Date	Span Pt	DGH940/	Initial Check (must be within +/- 0.1 units or need to recalibrate)	Lot / Exp Date
Time	Temperature	(pH 4)	061407	(pH 10)	00 1 1	0.1 units or need to recambrate)	OCT 615/
		7-7-1-1 D 1	09/30/2022		10.10	(pH 7 - acceptable range 6.9-7.1)	09/30/2022
		Initial Reading	Adjusted	Initial Reading	Adjusted		Recalibrate (Y/N)*
0816	5,94	4.21	4.00	9.75	10,00	7.00	N
		pl	H 3 Hour Check (*2-poin	t calibration only nee	eds to be conducted if check value	is out of range)	
		Zero Pt *	Lot / Exp Date	Span Pt *	Lot / Exp Date	Check (must be within +/-0.2 units	Lot / Exp Date
Time (3 hr		(pH 4)	0G1467	(pH 10)	06 H 940/	or need to recalibrate)	06I615/
check)	Temperature		09/30/2022		08/31/2026	(pH 7 - acceptable range 6.8-7.2)	09/30/2027
1200	13.21	4.06	4,00	9.98	10.00	7.00	'N'
						,	

				Conductivity			
Time	Zero (Ambient Air)	Lot / Exp Date	(1,413 ms/cm)	Lot / Exp Date	Check (must be within +/-1% or need to recalibrate)	Lot / Exp Date	
		_		03/31/2021	(use 1.413 ms/cm - acceptable range 1.398 - 1.427 )	03/31/2021	
	Initial Reading	Adjusted	Initial Reading	Adjusted	Check Value	Recalibrate (Y/N)	
2856	ପ , ଏହାତ	0,00	1.46	1.41	1,41	N	

Turbidity								
Time	Zero	Lot / Exp Date	Span (100 NTU)	Lot / Exp Date 2029 00 73	Check - must be within +/- 10% or need to recalibrate	Lot / Exp Date 75296073		
		DI	(100 (110)	07/22/2021	(use 100 NTU - acceptable range 90- 110 NTU)	07/22/2021		
	Initial Reading	Adjusted	Initial Reading	Adjusted	Check Value	Recalibrate (Y/N)		
0828	0.0	0.0	118	100	102	N		

	Dissolved Oxygen								
	Zero	2019061245	Air Check	Lot / Exp Date	Check - reading must be 0.3mg/L or less				
Time	(0% Solution)	02/24/2021	(100%)		(0% Solution)				
	Initial Reading	Adjusted	Check Value	Recalibrate (Y/N)	Check Value				
0839	0.02	0.80	5.00	N	ð , \				
				20.00					



Equipment: U-52 Job #/Name: Part Rewing Weather: Clear 40° Personnel: 12C

				pH				
Time	Temperature	Zero Pt (pH 4)	Lot / Exp Date	Span Pt (pH 10)	Lot / Exp Date	Initial Check (must be within +/- 0.1 units or need to recalibrate)  (pH 7 - acceptable range 6.9-7.1)	Lot / Exp Date	
			Initial Reading Adjuste	Adjusted	Initial Reading	Adjusted		Recalibrate (Y/N)*
8:10		3.95	4.60	10.63	10.60	(0,37	$\sim$	
	to be the second	pł	1 3 Hour Check (*2-poir	t calibration only needs t	o be conducted if check value			
Time (3 hr		Zero Pt * (pH 4)	Lot / Exp Date	Span Pt * (pH 10)	Lot / Exp Date	Check (must be within +/-0.2 units or need to recalibrate)	Lot / Exp Date	
check)	Temperature					(pH 7 - acceptable range 6.8-7.2)		
1215						6.98 ox	$\sim$	
							•	

				Conductivity		
Time	Zero (Ambient Air)	Lot / Exp Date	Span (1.413 ms/cm)	Lot / Exp Date	Check (must be within +/-1% or need to recalibrate)  (use 1.413 ms/cm - acceptable range 1.398 - 1.427)	Lot / Exp Date
	Initial Reading	Adjusted	Initial Reading	Adjusted	Check Value	Recalibrate (Y/N)
822	0.002	0.000	1.58	1.41	1.41	N

Turbidity								
Time	Zero	Lot / Exp Date	Span (100 NTU)	Lot / Exp Date	Check - must be within +/- 10% or need to recalibrate  (use 100 NTU - acceptable range 90- 110 NTU)	Lot / Exp Date		
	Initial Reading	Adjusted	Initial Reading	Adjusted	Check Value	Recalibrate (Y/N)		
024	0.2	6.0	102	100	99.9	~		

Dissolved Oxygen									
Time	Zero (0% Solution)	Lot / Exp Date	Air Span	Lot / Exp Date	Check - reading must be 0.3mg/L o less (0% Solution)				
	Initial Reading	Adjusted	Check Value	Recalibrate (Y/N)	Check Value				
831	6.0	0.0	98.2	7					



	Zero Pt	Lot / Exp Date	Span Pt	Lot / Exp Date	Initial Check (must be within +/-	Lot / Exp Date
Temperature	(pH 4)	9/30/20	(pH 10)	8/31/22	0.1 units or need to recalibrate)  (pH 7 - acceptable range 6.9-7.1)	
	Initial Reading	Adjusted	Initial Reading	Adjusted		Recalibrate (Y/N)*
2006	3.72	4,00	9.96	10.00	7.00	N
	pl	3 Hour Check (*2-poi	nt calibration only need	s to be conducted if check value	is out of range)	
	Zero Pt *	Lot / Exp Date	Span Pt *	Lot / Exp Date	Check (must be within +/-0.2 units or need to recalibrate)	Lot / Exp Date
Temperature	(pH 4)		(pH 10)		(pH 7 - acceptable range 6.8-7.2)	
remperature					(p. 7 Esseptiable lange of 7/2)	
	ŶŶĠ	Temperature (pH 4)  Initial Reading  25 3.12  ph  Zero Pt *  (pH 4)	Temperature	Zero Pt Lot / Exp Date Span Pt  (pH 4) 9/30/20 (pH 10)  Initial Reading Adjusted Initial Reading  PH 3 Hour Check (*2-point calibration only need Span Pt * (pH 4) (pH 10)	Temperature  (pH 4)  Initial Reading  Adjusted  Initial Reading  Adjusted  Initial Reading  Adjusted  PH 3 Hour Check (*2-point calibration only needs to be conducted if check value  Zero Pt * Lot / Exp Date  (pH 4)  (pH 10)  Lot / Exp Date  (pH 10)	Temperature (pH 4) 9/30/2 (pH 10) 8/31/22 0.1 units or need to recalibrate) (pH 7 - acceptable range 6.9-7.1)  Initial Reading Adjusted Initial Reading Adjusted 7.00  PH 3 Hour Check (*2-point calibration only needs to be conducted if check value is out of range)  Zero Pt * Lot / Exp Date Span Pt * Lot / Exp Date Check (must be within +/-0.2 units or need to recalibrate) (pH 4) (pH 10)

				Conductivity		
Time	Zero (Ambient Air)	Lot / Exp Date	Span (1.413 ms/cm)	8/7/21	Check (must be within +/-1% or need to recalibrate)  (use 1.413 ms/cm - acceptable range 1.398 - 1.427)	Lot / Exp Date
	Initial Reading	Adjusted	Initial Reading	Adjusted	Check Value	Recalibrate (Y/N)
7.1	0001	0.004	1148	1.41	1.41	10

Turbidity								
Time	Zero	Lot / Exp Date	Span (100 NTU)	Lot / Exp Date	Check - must be within +/- 10% or need to recalibrate  (use 100 NTU - acceptable range 90- 110 NTU)	Lot / Exp Date		
700	Initial Reading	Adjusted	Initial Reading	Adjusted	Check Value	Recalibrate (Y/N)		
153	3.8	0.0	77-8	100	160	N		

verenina.	Dissolved Oxygen									
	Zero	Lot / Exp Date	Air Span	Lot / Exp Date	Check - reading must be 0.3mg/L or less					
Time	(0% Solution)		(100%)		(0% Solution)					
-11	Initial Reading	Adjusted	Check Value	Recalibrate (Y/N)	Check Value					
1,50	Ò	0.0	(0)	Λ/	0,2					



	Date: 12/4/20 Job #/Name: PR	Weather: Clear 40° Personnel:	RC
Equipment:	U-52	Serial Number: 048912 /048911	

					Н		
	Temperature	Zero Pt Temperature (pH 4)	Lot / Exp Date	Span Pt	Lot / Exp Date	Initial Check (must be within +/- 0.1 units or need to recalibrate)	Lot / Exp Date
Time		(pH 4) Initial Reading	OG 1407 Adjusted	(pH 10)  Initial Reading	OGH940 Adjusted	(pH 7 - acceptable range 6.9-7.1)	9/30/22 Recalibrate (Y/N)*
755	9.09	4.00	4.00	4.76	10.00	7.07	recembrate (1/14)
					is to be conducted if check value		
Time (3 hr		Zero Pt *  (pH 4)	Lot / Exp Date	Span Pt *	Lot / Exp Date	Check (must be within +/-0.2 units or need to recalibrate)	Lot / Exp Date
check)	Temperature	(pn 4)		(pH 10)		(pH 7 - acceptable range 6.8-7.2)	
1115						7.03	eK.

Conductivity								
Time	Zero (Ambient Air)	Lot / Exp Date	/ Exp Date Span Lot / Exp (1.413 ms/cm) 3/31/2♥		Check (must be within +/-1% or need to recalibrate)	Lot / Exp Date		
			(=1,25 11.5,41.1)	066232	(use 1.413 ms/cm - acceptable range 1.398 - 1.427 )			
	Initial Reading	Adjusted	Initial Reading	Adjusted	Check Value	Recalibrate (Y/N)		
400	0.000	0.000	1.01	1.4/	1.40	7		

				Turbidity			
Time	Zero	Lot / Exp Date Span (100 NT		2019073	Check - must be within +/- 10% or need to recalibrate  (use 100 NTU - acceptable range 90- 110 NTU)	Lot / Exp Date	
	Initial Reading	Adjusted	Initial Reading	Adjusted	Check Value	Recalibrate (Y/N)	
8:2	00	0.0	96.5	/60	99.7	7	

de Santo			Dissolved Oxy	gen		
	Zero	Lot / Exp Date	Air Span	Lot / Exp Date	Check - reading must be 0.3mg/L less	
Time	(0% Solution)	2/24/21	(100%)		(0% Solution)	
	Initial Reading	Adjusted	Check Value	Recalibrate (Y/N)	Check Value	
814	0.0	الم الم				



	Date: 12/4/2020	PR-Anual Weather	Clasy 40	Personnel:	ml
Equipment: U-52	(14491)	Serial Number:	402 59		

				pH			
Time	Time Temperature	Zero Pt (pH 4)	Lot / Exp Date	Lot / Exp Date Span Pt (pH 10)		Initial Check (must be within +/- 0.1 units or need to recalibrate)  (pH 7 - acceptable range 6.9-7.1)	Lot / Exp Date
			Initial Reading	eading Adjusted	Initial Reading	Adjusted	7.01
749	8.35 °C	4.26	4.00	9.30	10.00		N
		pł	1 3 Hour Check (*2-poir	nt calibration only needs t	o be conducted if check value	is out of range)	
		Zero Pt *	Lot / Exp Date	Span Pt *	Lot / Exp Date	Check (must be within +/-0.2 units or need to recalibrate)	Lot / Exp Date
Time (3 hr		(pH 4)		(pH 10)			
check)	Temperature					(pH 7 - acceptable range 6.8-7.2)	
1015	16.32	4.02		10.00		7.61	

Conductivity							
Time	Zero (Ambient Air)	Lot / Exp Date	Span (1.413 ms/cm)	Lot / Exp Date	Check (must be within +/-1% or need to recalibrate)  (use 1.413 ms/cm - acceptable range 1.398 - 1.427 )	Lot / Exp Date	
	Initial Reading	Adjusted	Initial Reading	Adjusted	Check Value	Recalibrate (Y/N)	
८.८%	0.010	6.000	1.25	1.41	į.4 <sub>1</sub>	v	

				Turbidity		
Time	Zero	Lot / Exp Date	Span (100 NTU)	Lot / Exp Date	Check - must be within +/- 10% or need to recalibrate  (use 100 NTU - acceptable range 90- 110 NTU)	Lot / Exp Date
	Initial Reading	Adjusted	Initial Reading	Adjusted	Check Value	Recalibrate (Y/N)
806	6.0	6.0	87.0	100	100	N
	1		1			

Dissolved Oxygen								
Zero	Lot / Exp Date	Air Span	Lot / Exp Date	Check - reading must be 0.3mg/L or less				
Initial Reading	Adjusted	Check Value	Recalibrate (Y/N)	(0% Solution) Check Value				
				0.0				
	(0% Solution)	Zero (0% Solution)	Zero Lot / Exp Date Air Span (100%)	Zero Lot / Exp Date Air Span Lot / Exp Date (0% Solution) (100%)				



	10 t)	Date: 0/9/to Job	Name: Port Re	Weather: 7 8	Personnel:		
uipment:	4-51			Serial Number:	7335		
					н		
Time	Temperature	Zero Pt (pH 4)	Lot / Exp Date	Span Pt (pH 10)	Lot / Exp Date	Initial Check (must be within +/- 0.1 units or need to recalibrate)	9/30/32
	-	Initial Reading	Adjusted	Initial Reading	Advantad	(pH 7 - acceptable range 6.9-7.1)	
166	9.20	3.96	400	4 4 9	Adjusted	7	Recalibrate (Y/N)
	1.00				ds to be conducted if check value is ou	7.00	11
		Zero Pt *	Lot / Exp Date	Span Pt *	Lot / Exp Date	Check (must be within +/-0.2 units or need to recalibrate)	Lot / Exp Date
Time (3 hr	Temperature	(pH 4)		(pH 10)		(pH 7 - acceptable range 6.8-7.2)	
1110	9 40	400	4.00	1008	70,00	7.09	
							***
				Conductivity		7	
Time	Zero (Ambient Air)	Lot / Exp Date	Span (1.413 ms/cm)	2/31/21	Check (must be within +/-1% or need to recalibrate)  (use 1.413 ms/cm - acceptable	Lot / Exp Date	
	Initial Reading	Adjusted	Initial Reading	Adjusted	range 1.398 - 1.427 )  Check Value	Recalibrate (Y/N)	
811	0.000	0.600	161	1,41	1,7/	///	
				Turbidity			
Time	Zero	Lot / Exp Date	Span (100 NTU)	Lot / Exp Date	Check - must be within +/- 10% or need to recalibrate  (use 100 NTU - acceptable range 90 110 NTU)		
	Initial Reading	Adjusted	Initial Reading	Adjusted	Check Value	Recalibrate (Y/N)	
\$15	0.0	0.0	190	100	100	N	
			Dissolved Oxy	gen		1	
	Zero	Lot / Exp Date	Air Span	Lot / Exp Date	Check - reading must be 0.3mg/L or less		
Time	(0% Solution)		(100%)		(0% Solution)		
8/1	Initial Reading	Adjusted	Check Value	Recalibrate (Y/N)	Check Value		
416	0/0	0,0	100	//	21		



Date: 12/9/20 Job #/Name: PR Weather: Clav 300 Personnel: RL Equipment: U-52 Serial Number: \_\_\_

Time Temperature		Zero Pt	Lot / Exp Date	ot / Exp Date Span Pt (pH 10)	Lot / Exp Date	Initial Check (must be within +/- 0.1 units or need to recalibrate)	Lot / Exp Date
	Temperature	(pH 4)				(pH 7 - acceptable range 6.9-7.1)	
		Initial Reading	Adjusted	Initial Reading	Adjusted		Recalibrate (Y/N)*
805		3.72	4.00	10.28	1000	7.03	7
		pl	1 3 Hour Check (*2-poi	nt calibration only needs	to be conducted if check value	is out of range)	
		Zero Pt *	Lot / Exp Date	Span Pt *	Lot / Exp Date	Check (must be within +/-0.2 units or need to recalibrate)	Lot / Exp Date
Time (3 hr		(pH 4)		(pH 10)			
check)	Temperature					(pH 7 - acceptable range 6.8-7.2)	
1245		- (W 13-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-				7.02	•

				Conductivity		
Time	Zero (Ambient Air)	Lot / Exp Date	Span (1.413 ms/cm)	Lot / Exp Date	Check (must be within +/-1% or need to recalibrate)  (use 1.413 ms/cm - acceptable range 1.398 - 1.427)	Lot / Exp Date
	Initial Reading	Adjusted	Initial Reading	Adjusted	Check Value	Recalibrate (Y/N)
818	6.00	000	1.42	1.71	1.71	~

Turbidity								
Zero	Lot / Exp Date	Span (100 NTU)	Lot / Exp Date	Check - must be within +/- 10% or need to recalibrate  (use 100 NTU - acceptable range 90- 110 NTU)	Lot / Exp Date			
Initial Reading	Adjusted	Initial Reading	Adjusted	Check Value	Recalibrate (Y/N)			
0.0	0.0	129	100	100	N			
	Initial Reading	Initial Reading Adjusted	(100 NTU)  Initial Reading Adjusted Initial Reading	Zero Lot / Exp Date Span Lot / Exp Date (100 NTU)  Initial Reading Adjusted Initial Reading Adjusted	Zero Lot / Exp Date Span Lot / Exp Date Check - must be within +/- 10% or need to recalibrate  (100 NTU)  (use 100 NTU - acceptable range 90- 110 NTU)  Initial Reading Adjusted Initial Reading Adjusted Check Value			

		Dissolved Oxy	gen		
Zero	Lot / Exp Date	Air Span	Lot / Exp Date	Check - reading must be 0.3mg/L o less	
(0% Solution)		(100%)		(0% Solution)	
Initial Reading	Adjusted	Check Value	Recalibrate (Y/N)	Check Value	
0.0	00	969	7		
	(0% Solution) Initial Reading	Zero (0% Solution) Initial Reading Adjusted	Zero Lot / Exp Date Air Span (0% Solution) (100%) Initial Reading Adjusted Check Value	Zero Air Span (0% Solution) (100%)  Initial Reading Adjusted Check Value Recalibrate (Y/N)	



		Date: 12/9/2024 Job #/Name: PRTUM	Weather:	P. Suny 30,	Personnel:	MI	
Equipment:	U-52		Serial Number:	43280			

		Zero Pt	Lot / Exp Date	Span Pt	Lot / Exp Date	Initial Check (must be within +/-	Let / Eve Date
Time	Temperature	(pH 4)	Lot / Exp bate	(pH 10)	Lot / Exp Date	0.1 units or need to recalibrate)  (pH 7 - acceptable range 6.9-7.1)	Lot / Exp Date
		Initial Reading	Adjusted	Initial Reading	Adjusted	(pri / acceptable range 0.3-7.1)	Recalibrate (Y/N)
750	9.67	3.88	4.00	10.33	10.00	7-01	N
		pł	d 3 Hour Check (*2-poir	nt calibration only needs	to be conducted if check value	is out of range)	
		Zero Pt *	Lot / Exp Date	Span Pt *	Lot / Exp Date	Check (must be within +/-0.2 units or need to recalibrate)	Lot / Exp Date
Time (3 hr check)	Temperature	(pH 4)		(pH 10)		(pH 7 - acceptable range 6.8-7.2)	
1100	13.63	4.01		10.01	*****	7.05	

	Conductivity		
Span (1.413 ms/cm)	Lot / Exp Date	Check (must be within +/-1% or need to recalibrate)  (use 1.413 ms/cm - acceptable	Lot / Exp Date
Initial Reading	Adjusted	range 1.398 - 1.427 ) Check Value	Recalibrate (Y/N)
1.26	1.41	1.41	V
	1.26	1.41	1.41

Turbidity								
Time	Zero	Lot / Exp Date	Span (100 NTU)	Lot / Exp Date	Check - must be within +/- 10% or need to recalibrate  (use 100 NTU - acceptable range 90- 110 NTU)	Lot / Exp Date		
	Initial Reading	Adjusted	Initial Reading	Adjusted	Check Value	Recalibrate (Y/N)		
300	0.0	0.0	98.2	1001	100	N		

			Dissolved Oxy	gen	
Time	Zero	Lot / Exp Date	Date Air Span Lo		Check - reading must be 0.3mg/L o less
Time	(0% Solution)		(100%)		(0% Solution)
	Initial Reading	Adjusted	Check Value	Recalibrate (Y/N)	Check Value
205	00/0	000	100	~	000



		Date: 12/4/20 Job #	1/Name: 4-52	Weather:	Personnel:		
quipment:	4-52			Serial Number:	7375		
				四种种技术 政治研究的	pH management of the state of t	NOVEMBER WEST AND TO SERVICE AND ADMINISTRATION OF THE PROPERTY OF THE PROPERT	
Time	Temperature	Zero Pt (pH 4)	Lot / Exp Date	Span Pt (pH 10)	Lot / Exp Date	Initial Check (must be within +/- 0.1 units or need to recalibrate)	9 (3./2)
			1-100	(J.:. 20)	000	(pH 7 - acceptable range 6.9-7.1)	
1:00	10 ()	Initial Reading	Adjusted	Initial Reading	Adjusted		Recalibrate (Y/N)*
1.56	1.00	3,95	400	10.05	10.00	7.00	N
		pł	3 Hour Check (*2-pc	int calibration only nee	ds to be conducted if check value is ou		
ime (3 hr		Zero Pt * (pH 4)	Lot / Exp Date	Span Pt *  (pH 10)	Lot / Exp Date	Check (must be within +/-0.2 units or need to recalibrate)	Lot / Exp Date
check)	Temperature					(pH 7 - acceptable range 6.8-7.2)	
100	120	3.99	4,00	10.01	10.00	7.62	N
			TO SERVICE SERVICE	Conductivity	CONTROL OF THE CASE AND ADDRESS OF THE CASE	SHAPPA BEST SOME BARY AND BEST CO.	
Time	Zero (Ambient Air)	Lot / Exp Date	Span (1.413 ms/cm)	S/31/d/	Check (must be within +/-1% or need to recalibrate)  (use 1.413 ms/cm - acceptable	Lot / Exp Date	
	Initial Reading	Adjusted	Initial Reading	Adjusted	range 1.398 - 1.427 ) Check Value	Recalibrate (Y/N)	
1.50	0.003	0.000	1.36	1.41	Citodi Folic	reconstate (1/11)	
	Zero	Lot / Exp Date	Span	Turbidity  Lot / Exp Date	Braker d'Electric de l'abité de la Constitution de l'abité de la Constitution de la Const	Confirmation Continues to Continue to	
Time		sor, and see	(100 NTU)	7/22/21	Check - must be within +/- 10% or need to recalibrate (use 100 NTU - acceptable range 90 110 NTU)		
Co.	Initial Reading	Adjusted	Initial Reading	Adjusted	Check Value	Recalibrate (Y/N)	
& Od	1.2	00	103	100	(0)	10	
		F 100000 00 00 00000	Dissolved Oxy	roen		1	
Time	Zero	Lot / Exp Date	Air Span	Lot / Exp Date	Check - reading must be 0.3mg/L or less		
ime	(0% Solution)		(100%)		(0% Solution)		
c -,c	Initial Reading	Adjusted	Check Value	Recalibrate (Y/N)	Check Value		
507	0-0	0.0	000	//	Λ.)		



		Date: 12/11/2020 Job #/Name: PR-Terminal Weather: Sonny 405 Personnel: M	P
Equipment:	U-52	Serial Number: 43280	

Time	Temperature	Zero Pt (pH 4)	Lot / Exp Date	Span Pt (pH 10)	Lot / Exp Date	Initial Check (must be within +/- 0.1 units or need to recalibrate)  (pH 7 - acceptable range 6.9-7.1)	Lot / Exp Date
		Initial Reading	Adjusted	Initial Reading	Adjusted		Recalibrate (Y/N)*
735	8.35	3.91	4.00	9.98	10.00	7.03	N
		pl	1 3 Hour Check (*2-poi	nt calibration only needs to	o be conducted if check value	is out of range)	
Time (3 hr		Zero Pt *  (pH 4)	Lot / Exp Date	Span Pt * (pH 10)	Lot / Exp Date	Check (must be within +/-0.2 units or need to recalibrate)	Lot / Exp Date
check)	Temperature	(pii 4)		(pii 10)		(pH 7 - acceptable range 6.8-7.2)	
115	13.30	4.00		10.00	To the property of the second	7.00	

				Conductivity			
	Zero (Ambient Air)	Lot / Exp Date	Span (1.413 ms/cm)	Lot / Exp Date	Check (must be within +/-1% or need to recalibrate)	Lot / Exp Date	
Time	(			(use 1.413 ms/cm - acceptable range 1.398 - 1.427 )			
	Initial Reading	Adjusted	Initial Reading	Adjusted	Check Value	Recalibrate (Y/N)	
140	0.000	0.00	1.27	1.41	1.41	N	
					( ) )		

			Turbidity		
Zero	Lot / Exp Date	Span (100 NTU)	Lot / Exp Date	Check - must be within +/- 10% or need to recalibrate  (use 100 NTU - acceptable range 90-	Lot / Exp Date
Initial Reading	Adjusted	Initial Reading	Adjusted	Check Value	Recalibrate (Y/N)
0.9	0.0	106	100	100	N
	Initial Reading	Initial Reading Adjusted	(100 NTU)  Initial Reading Adjusted Initial Reading	Zero Lot / Exp Date Span Lot / Exp Date (100 NTU)  Initial Reading Adjusted Initial Reading Adjusted	Zero Lot / Exp Date Span Lot / Exp Date Check - must be within +/- 10% or need to recalibrate  (100 NTU)  (use 100 NTU - acceptable range 90- 110 NTU)  Initial Reading Adjusted Initial Reading Adjusted Check Value

New Table			Dissolved Oxy	gen	
	Zero	Lot / Exp Date	Air Span	Lot / Exp Date	Check - reading must be 0.3mg/L or less
Time	(0% Solution)		(100%)		(0% Solution)
	Initial Reading	Adjusted	Check Value	Recalibrate (Y/N)	Check Value
750	000	040	10000	N	Our



		Date: 1 L/n/20 Job#	#/Name: PORT KI	EAD' Weather: Cle	Personnel:	RC									
Equipment:	U-52		S	Serial Number:											
	Zero Pt Lot / Evn Date Span Pt Lot / Evn Date Taikin Check / wwet he within a /														
		Zero Pt	Lot / Exp Date	Span Pt	Lot / Exp Date	Initial Check (must be within +/-	Lot / Exp Date								
Time	Temperature	(pH 4)		(pH 10)		0.1 units or need to recalibrate)	#####################################								
						(pH 7 - acceptable range 6.9-7.1)									
		Initial Reading	Adjusted	Initial Reading	Adjusted		Recalibrate (Y/N)*								
0810	9.76	3.87	4,00	10.04	1000	7.02	~								
		pł	d 3 Hour Check (*2-poi	nt calibration only needs	to be conducted if check value	is out of range)									
	535	Zero Pt *	Lot / Exp Date	Span Pt *	Lot / Exp Date	Check (must be within +/-0.2 units	Lot / Exp Date								
Time (3 hr		(pH 4)		(pH 10)		or need to recalibrate)									
check)	Temperature					(pH 7 - acceptable range 6.8-7.2)									
					17.7										

April Mary				Conductivity		
Time	Zero (Ambient Air)	Lot / Exp Date	Span (1.413 ms/cm)	Lot / Exp Date	Check (must be within +/-1% or need to recalibrate)  (use 1.413 ms/cm - acceptable range 1.398 - 1.427)	Lot / Exp Date
	Initial Reading	Adjusted	Initial Reading	Adjusted	Check Value	Recalibrate (Y/N)
0821	0000	0.000	1.27	1.71	1.91 ~	

				Turbidity		
Time	Zero	Lot / Exp Date	Span (100 NTU)	Lot / Exp Date	Check - must be within +/- 10% or need to recalibrate  (use 100 NTU - acceptable range 90- 110 NTU)	Lot / Exp Date
	Initial Reading	Adjusted	Initial Reading	Adjusted	Check Value	Recalibrate (Y/N)
0630	3.0	0.0	161	100	19.8 2	٦

			Dissolved Oxy	gen	
	Zero	Lot / Exp Date	Air Span	Lot / Exp Date	Check - reading must be 0.3mg/L o less
Time	(0% Solution)		(100%)		(0% Solution)
	Initial Reading	Adjusted	Check Value	Recalibrate (Y/N)	Check Value
630	0.0	0.0	99.8	<i>i</i> ./	
					20071045



SITE:	6	161	+ Ren	dina	Stevide	Anna		COI	NSULTING	FIRM:		EARTH S	YSTEMS			
DATE:		12	12/2020	)				FIE	LD PERSOI	NNEL:	7	30				
WEATHER:	_	el	ur/wi-	dy / 40	)5			CI	ERTIFICATI	ON #:		130	40			
MONITOR				FA-1 02000100		WELL DE	- 12-	Inches			SCRE	ENED/OPEN	INTERVAL:		2-13'	
PID/FID RE	D/FID READINGS (ppm): BACKGROUND: 0.0 PUMP INTAKE DEPTH: 5,0 ft below TOC  BENEATH OUTER CAP: 0.0  BENEATH INNER CAP: 0.0  PUMP INTAKE DEPTH: 5,0 ft below TOC  DEPTH TO WATER BEFORE PUMP INSTALLATION: 2.80 ft below TOC  BENEATH INNER CAP: 0.0  PUMP INTAKE DEPTH: 5,0 ft below TOC  DEPTH TO WATER BEFORE PUMP INSTALLATION: 2.80 ft below TOC  DEPTH TO WATER BEFORE PUMP INSTALLATION: 2.80 ft below TOC  DEPTH TO WATER BEFORE PUMP INSTALLATION: 2.80 ft below TOC  DEPTH TO WATER BEFORE PUMP INSTALLATION: 2.80 ft below TOC  DEPTH TO WATER BEFORE PUMP INSTALLATION: 2.80 ft below TOC  DEPTH TO WATER BEFORE PUMP INSTALLATION: 2.80 ft below TOC  DEPTH TO WATER BEFORE PUMP INSTALLATION: 2.80 ft below TOC  DEPTH TO WATER BEFORE PUMP INSTALLATION: 2.80 ft below TOC  DEPTH TO WATER BEFORE PUMP INSTALLATION: 2.80 ft below TOC  DEPTH TO WATER BEFORE PUMP INSTALLATION: 2.80 ft below TOC  DEPTH TO WATER BEFORE PUMP INSTALLATION: 2.80 ft below TOC  DEPTH TO WATER BEFORE PUMP INSTALLATION: 2.80 ft below TOC  DEPTH TO WATER BEFORE PUMP INSTALLATION: 2.80 ft below TOC															
TIME												WATER				
	PU	SAM	READING	CHANGE.	READING	CHANGE*	) (mv) (mg/l) (SM 45000G) (EPA 180.1) (SM 2550) (n READING CHANGE* READING CHANGE* READING CHANGE*							(mi/min)	(ft below TOC)	
0935	1		5.50	NA	0.142	NA	205	NA	1.12	NA	442	NA	17,86	NA	356	2.%
0940	1		5.62	6.67	0,153	6,05	245	16	1.12	0	186	579	18.05	)	350	2.91
0945	1		5.64	8	0.155	+	246	6.4	1.12	O	103.5	44.3	18.25	1	350	2.90
0950	1		5.65	8	0.157	0	17.72	6.8	1.12	0	94,2	8,9	18.22	0.1		2.88
0955	1		5.67	8	0.160	6	247	0	1.12	O	65.1	30	18.33	.0		2.87
1000	1		5.68	8	0.163	8	246	Ð	1.12	0	64.8	0.4	18.35	A		2.87
1005	J		5.67	0	0.164	8	247	ð	1.12	0	64.5	0.4	18.36	0		2.86
1010			5.67	8	0.164	4	247	Ø	1.12	0	64.1	0,6	18.36	0	1	2.86
	$\perp$						-		-	-			-			
	1						-				-		-			
COMMENT	5:															

<sup>\*</sup>INDICATOR PARAMETERS HAVE STABLIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature;

<sup>± 10</sup> mv for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity



	_	.//	. 1	1	11	A .						-					
SITE:	_	Y	ort Ka		ite wide	Annual			NSULTING	FIRM:		EARTH S	YSTEMS				
DATE:	_	12	-12/202					FII	ELD PERSO	NNEL:		NP					
WEATHER:	_	c	les- wi	ndy/38	30				ERTIFICAT	ION #:		130	040				
				).													
MONITOR				FA-2		WELL DE					SCRE	ENED/OPEN	INTERVAL:		2-14	1	
WELL PER	MIT	#:		20200010	1	WELL DIAME	TER: 2"	Inches									
PID/FID READINGS (ppm): BACKGROUND: PUMP INTAKE DEPTH: 6.0 ft below TOC																	
3 42																	
BENEATH OUTER CAP:  DO DEPTH TO WATER BEFORE PUMP INSTALLATION: 2194 below TOC  BENEATH INNER CAP:																	
	PH SPECIFIC REDOX DISSOLVED TURBIDITY TEMPERATURE PUMPING													DEPTH TO			
TIME	RGI	PUND IN THE PROPERTY OF THE PR											(ft below TOC)				
	12	SA	READING	CHANGE.	READING	CHANGE*	READING	CHANGE.	READING	CHANGE'	READING	CHANGE'	READING	CHANGE.	1	,	(It below roc)
1035	V		6.75	NA	0.187	NA	241	NA	2,36	NA	306.	NA	15.88	NA	35	D	3.96
1040	1		6.77	0	0.186	0,5	256	5.8	2.36	0	60.9	80	16.56	6	-		4,08
1045	1		678	6	0.186	0	248	3,1	2.36	0	51.2	15	16.88	0			4.10
1050	1		6.78	0	0.184	0.1	240	3.2	236	0	40,6	20	17.02	0			4,12
1055	1		6.78	0	0/181	4	240	0	276	0	28.5	29	17.05	0			4.13
1100	1		6.78	8	0.181	0	239	ð	2,36	P	25.1	11	17,05	0			4.13
1105	1		6.79	0	6,180	0	240	9	2,36	0	25.2	0.3	17.65	0			4,13
1110	1		6.79	8	0/178	0	239	4	236	0	25.1	+	17.04	8			4.13
1115	L	V	6.80	0	0.177	-8	239	0	2.36	0	24.8	8	17.05	8	4		4.14
COMMENT	S:							-									

<sup>&#</sup>x27;INDICATOR PARAMETERS HAVE STABLIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature;

<sup>± 10</sup> mv for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity



SHEET | OF

SITE:		F	ort R	cadin	Siterido	Annual		co	NSULTING	FIRM:		EARTH S	YSTEMS			
DATE:		18	Jakas	,		12/4/202	· ·	FIE	LD PERSO	NNEL:	THE	MP				
WEATHER	:		clear	/ wind9	1380F			С	ERTIFICAT	ON #:		130	140			
			l	. ' ,												
MONITOR				FA-3		WELL DE	10				SCRE	ENED/OPEN	INTERVAL:		2- 15'	
WELL PER	MILE	F:		202000102	2	WELL DIAME	TER: 2"	Inches		ips	11.5					
PID/FID RE	ADIN	IGS	(ppm):	BACKGROU	JND:	0		PUM	P INTAKE	DEPTH: 401A		oc				
			,	BENEATH (	OUTER CAP:					ER BEFORE P			76 ft belov	v TOC		
	BENEATH INNER CAP:															
	D D PH SPECIFIC REDOX DISSOLVED TURBIDITY TEMPERATURE PUMPING DEPTH TO															
TIME	PURGING	(pH units) CONDUCTIVITY POTENT  (SM 4500H+B) (mS/cm) (EPA 120.1) (mv)  READING CHANGE: READING CHANGE: READING CHANGE:							1	YGEN	(N)		(degre	70	RATE	WATER
	P. D.	SAM	READING	CHANGE.	(mS/cm)	(EPA 120.1)	READING	(mv)	(mg/l)	(SM 4500OG)	(EPA	CHANGE	(SM 2	CHANGE	(ml/min)	(ft below TOC)
905	K		6.85	NA	0.433	NA	-53	NA	8.98	NA	280	NA	17:36	NA	250	8.92
910	K		6.57	0.28	0.419	30/0	-63	-10	6.56	27%	200	29%	17.83	10/0	250	8.93
915	X	П	6.41	0.15	0.411	20/0	-63	Atlant	5.79	120/0	18:5	18%	17.63	10%	200	8.93
120	×		6.41	-	6.408	190	-66	3	3.62	337/2	134	1905	17.54	10/0	250	8.33
925	×		6.40	6.01	0.407	100	-67	i	3.60	20%	90.8	32 0/3	17.47	10/0	273	8.93
930	x		6.40	_	6.463	10/0	-69	2	3.61	10/0	39.9	10/0	17.57	10/3	210	8.93
935	x		6.40	-	6.40)	~	-70	1	3.57	20/0	89.0	1010	17.68	10/5	57.5	8.93
940	X	0	6.39	10.0	0.403	-	-78	-	3.59	10/5	87.3	20/0	17.75	10/3	250	8.93
qui		K	6.39	_	6.399	10/0	-72	2	3,62	20/0	37.8	20/5	17.92	10/0	270	8.73
COMMEN.	- socie slightly discolor below he no ENALPE - slubules i some to law the															

<sup>&#</sup>x27;INDICATOR PARAMETERS HAVE STABLIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature;

<sup>± 10</sup> mv for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity



SITE:		Por	+ Ren	lin Si	tewide	Annual		co	NSULTING	FIRM:		EARTH S	YSTEMS			
DATE:			1 1	v 20				FIE	LD PERSOI	NNEL:	720					
WEATHER:		U	verist	- I win	14/38	3°F			ERTIFICATI	ON #:		130	40			
					, ,											
MONITOR V				FA-4 E20200010		WELL DIAME		Inches			SCRE	ENED/OPEN	INTERVAL:	***************************************	2- 15'	
				20200010	3.											
PID/FID RE	ADIN	GS (	(ppm):	BACKGROU	JND:	Ð	_	PUM	P INTAKE I	DEPTH: 11,5	ft below TO	c .				
				BENEATH C	OUTER CAP:	<del></del>		DEP	TH TO WAT	ER BEFORE P	UMP INSTALI	LATION : B	90 ft belov	w TOC		
	BENEATH INNER CAP:															
PH SPECIFIC REDOX DISSOLVED TURBIDITY TEMPERATURE PUMPI													PUMPING	DEPTH TO		
TIME	PURGING	SAMPLING		oon+B)	(mS/cm)	(EPA 120.1)		(mv)	(mg/l)	(SM 4500OG)	(NTU) G) (EPA 180.1)		(degre		RATE	WATER
	P.	SAN	READING	CHANGE'	READING	CHANGE'	READING	CHANGE.	READING	CHANGE*	READING	CHANGE.	-	CHANGE*	(ml/min)	(ft below TOC)
1345	V		6.36	NA	0,391	NA	-49	NA	1,26	NA	113	NA	14,58	NA	350	8,92
1350	1		6.80	6.4	0,955	59	-56	12	0	0	22,5	80	15.62	6,6		8,93
1355	V		6.83	0,4	1.55	38	-85	34	0	0	20.6	8,4	15,99	7,3		8.53
1400	1		6.84	0	1.65	6.0	-133	36	0	0	5.5	71	17.48	8.5		8,94
1405	1		6,89	2	1.72	4,0	-130	2.2	0	0	5.3	10	17.51	<b>\$</b>		8.55
1410	V		6,88	6	1,71	8	-131	67	0	0	5.1	3.7	17.55	0		8.95
1415	1		6.85	+	1,72	6	-130	8	0	0	5.1	0	17.54	0		8,95
1420		4	6.90	4	1,74	4	-133	2.2	P	8	5.0	1,9	17.55	Þ	A	8.95
COMMENT	S:							-		+						

<sup>\*</sup>INDICATOR PARAMETERS HAVE STABLIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature;

<sup>± 10</sup> mv for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity



SITE:		Part	2.,	1 - 5	k wide	Anna		co	NSULTING	FIRM:		EARTH S	YSTEMS			
DATE:	-	12/2/	2020		II MIDE	mana		FII	ELD PERSOI	NNEL:	-	Re				***
WEATHER:	-	our		1 .	138°F				ERTIFICATI	ON #:		130	40			
	-	000	-4)1	1 mc my	/ 30 1					-						
MONITOR	VELL	#:		FA-5		WELL DE	РТН: 15'				SCRE	ENED/OPEN	INTERVAL:		2- 15'	
WELL PER	/IT#		E	20200010	14.	WELL DIAME	TER: 2"	Inches						-		
DIDITIO DE			-							105						
PID/FID READINGS (ppm): BACKGROUND:  BENEATH OUTER CAP:  PUMP INTAKE DEPTH: 0,5 ft below TOC  DEPTH TO WATER BEFORE PUMP INSTALLATION: 7,45 ft below TOC																
BENEATH OUTER CAP:  DEPTH TO WATER BEFORE PUMP INSTALLATION: 1. 40 ft below TOC  BENEATH INNER CAP:																
	pH SPECIFIC REDOX									YGEN	(NTU)		TEMPER (degre	Total	PUMPING	DEPTH TO WATER
TIME	PH SPECIFIC REDOX  (pH units) CONDUCTIVITY POTENTIA  (SM 4500H+B) (mS/cm) (EPA 120.1) (mv)  READING CHANGE READING CHANGE READING CHANGE								(mg/l)	(SM 4500OG)	The second second second second		(SM 2550)		(ml/min)	(ft below TOC)
	1	_	-	CHANGE*		CHANGE*	READING	CHANGE.	READING	CHANGE.	READING	CHANGE.	READING	CHANGE'		
1436	1	6.8	(1	NA	0.318	NA	-107	NA	0.46	NA	283	NA	13.48	NA	350	7.53
1435	1	6.5	2	4.2	0.316	0,6	-51	14.9	0,40	•	102.1	63,9	14,55	7.3	1	7.52
1440	1	6.5	0	6,3	0,316	0	-82	5,8	0.40	0	60.5	40.7	14.96	2.7		7.51
1445	1	6.	12	1.8	0.315	0	-75	8,2	0.40	0	52.1	13.88	15.10	0.9		7,58
1450	M	6.3		0,6	0,316	ð	-73	2,6	0.40	0	48,2	7.4	15.18	0		7.50
1455		6.	7	0,(	0,316	0	-72	1.3	0.40	0	48,2	0	15.18	0		7.50
1500		6,	37	0	6,315	Ð	-71	1	0.40	0	48,10	0	15.15	0		7.50
1505	V 6.36 8 0.315 8 -72							1	0.40	0	47.3	7	15,19	0	4	7.50
	Ш															
COMMENT	S:															

<sup>\*</sup>INDICATOR PARAMETERS HAVE STABLIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature;

 $<sup>\</sup>pm$  10 mv for Redox Potential; and  $\pm$  10% for Dissolved Oxygen and Turbidity



SITE:			Part 1	recolins.				CONSULTING FIRM: EARTH SYSTEMS								
DATE:			12/	lecding				FI	ELD PERSOI	NEL:		AE				1
WEATHER:	_			Snow					ERTIFICATI	ON #:		130	40			
MONITOR V				-A-6 200010	5	WELL DEF		Inches			SCRE	ENED/OPEN	INTERVAL:	) <del></del>	5-181	
PID/FID READINGS (ppm): BACKGROUND: 0.0 PUMP INTAKE DEPTH: 9.5 ft below TOC  BENEATH OUTER CAP: 0.6 DEPTH TO WATER BEFORE PUMP INSTALLATION: 7.24 ft below TOC  BENEATH INNER CAP: 0.0																
TIME	RGING	(pH units)   CONDUCTIVITY   POTEN'   (SM 4500H+B)   (mS/cm) (EPA 120.1)   (mv			REDOX TENTIAL (mv)	TIAL OXYGEN			TURBIDITY (NTU) (EPA 180.1)		RATURE ees C) 2550)	PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)			
	P	SAI	READING	CHANGE*	READING	CHANGE*	READING	CHANGE.	READING	CHANGE*	READING	CHANGE'	READING	CHANGE'		
1205	X		6.68	NA	0.245	NA	-107	NA	3.79	NA	140	NA	8.66	NA	316	7.85
1210	'n		6.68	0.00	0.227	7%	-102	5	2.73	270/3	6.3	95%	8.93	2740	)	İ
1215	Y		6.69	0-01	0.222	20/0	92	10	2.65	30%	2.3	630/3	9.03	10/0		
1220	У		6.70	0.01	0.221	10%	88	Ч	2.58	30%	1,1	5240	8.96	10/0		7.90
1225	×		6.70	_	0.218	10%	85	3	2.42	60%	6.3	7200	8.94	10/0		7.94
1230	X		6.71	0.01	0.218	_	86	1	2.32	440	0.3		8.37	10/0		7.98
1235	Y		6.71	-	0.216	10/0	87	1	2.28	20%	0.3	_	9.02	10%		
1240	Y		6.71	-	0.216		89	2	2.15	60%	0.3	-	9.09	10%		
1245		X	6.72	0.01	0.213	10/0	90	١	209	30%	0.3	-	9.11	10%	1	上
	Г															
COMMENT	S:							11								

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<sup>± 10</sup> mv for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity



SITE:	_		Form	er Hess	- Port Re	eading		co	NSULTING	FIRM:		EARTH S	YSTEMS			
DATE:	12/11/20									NNEL:		R				
WEATHER:				Clear	400			c	ERTIFICATI	ON #:		130				
MONITOR				JOSEP .	FA-7	WELL DEI	400	Inches			SCRE	ENED/OPEN	INTERVAL:		25-30	2-18
WELL PERI	416 E	#.	E	102000	106	WELL DIAME	TER:	1 2 Inches								
PID/FID RE	ADII	NGS		BACKGROU		6	0	PUN	IP INTAKE I	DEPTH:	ft below To	ос				
				BENEATH O	OUTER CAP:	<u> </u>	The second secon	DEP	TH TO WAT	ER BEFORE P	1.5 I	LATION :	It belo	w TOC		
BENEATH INNER CAP: 0.0																
	D D PH SPECIFIC REDOX							REDOX	DISSOLVED TURBIDITY			TEMPE	RATURE	PUMPING	DEPTH TO	
TIME	PURGING	SAMPLING	(pH t			UCTIVITY	PO	POTENTIAL (mv)		YGEN		TU)	(degrees C) (SM 2550)		RATE	WATER
1	PU	SAN	READING	CHANGE.	(mS/cm)	(EPA 120.1)	READING	(mv)	(mg/l)	(SM 4500OG)	READING	180.1)	(SM :	CHANGE*	(ml/min)	(ft below TOC)
1240	1		6.14	NA	072	NA	74	NA	9.93	NA	718	NA	15.10	NA	300	9.29
1200	J		6.07	,07	.066	87.	77	3	9.50	4.1	609	15%	15.11	.17.	300	9.29
1305	1		58b	-11	.055	161.	124	47	8.19	137	162	73%	14.99		345	
1300	1	П	5.85	.61	.055	_	134	10	7.46	87.	149		14.91	7/	300	9.29
1315	1	H	5.84				143	9	7.07			8%	1.//	.)%		1.0
	1	H	,	.61	.654	-5%		1		51.	130	12%	14.93	.)/	300	7.29
1320	V	Н	5.84	_	.054		176	3	4.71	41.	128	17.	14.97	5%	300	9.29
1325	1		5.83	10.	.054		148	2	6.55	21.	127	17.	17.90	.17	300	9,29
1330	1	1	582	.01	.054	_	151	3	6.40	21.	125	17	17.75	.17	300	9.29
	L															
	L	Ц														
COMMENT																
COMMENT	COMMENTS:															

<sup>\*</sup>INDICATOR PARAMETERS HAVE STABLIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature;

 $<sup>\</sup>pm$  10 mv for Redox Potential; and  $\pm$  10% for Dissolved Oxygen and Turbidity



SHEET | OF )

SITE:		Form	er Hess	- Port Re	ading		COI	NSULTING I	IRM:		EARTH S	YSTEMS			
DATE:		12/1					FIE	LD PERSON	NEL:	/	20				
WEATHER:		Cloudy	,50				CI	CERTIFICATION #: 13040							
MONITOR V			PER - 7 260006393	31	WELL DEF	10	Inches			SCRE	ENED/OPEN	INTERVAL:		5-18'	
PID/FID RE	ADINGS	(ppm):	BACKGROU BENEATH O	OUTER CAP:	0.0	2	PUM	P INTAKE D	EPTH: //-//	ft below TO	ATION:	07 ft below	w TOC		
TIME	PURGING	(pH	units)		ECIFIC FUCTIVITY (EPA 120.1)	1	EDOX FENTIAL (mv)		OLVED YGEN (SM 4500OG)	(NTU) (EPA 180.1)		(degrees C) (SM 2550)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
	PU	READING	CHANGE*	READING	CHANGE*	READING	CHANGE.	READING	CHANGE*	READING	CHANGE.		CHANGE*	(m/min)	(It below TOC)
1419	Х	6.57	- NA	0,242	NA O	157	NA	6.98	NA	77.2	NA	15.10	NA	275	6.39
1423	x	6.34	state.	0.239	-1.2410	176	19	6.06	-13.18h	79.5	2.98%	15.57	301110		6.41
1427	×	6.31	09	0.235	-1.67	190	14	3.96	-34,65	69.6	-12.45	16.53	6.16		6.53
1431	X	6.26	05	0.233	-,45	199	9	3.81	-3-79	70.0	1575	16.60	.423		6.55
1435	×	6.25	-,0,	0.233	0	204	5	3.77	-1.05	72.6	3.7/	16.58	-0/2		6.55
1430	×	6.25	-	0.233	0	211	7	3.72	-1.32	75.9	4.55	16.42	96		6.56
1445	×	6.25	_	0.233	0	206	5	3.75	10%	76.0	10%	16.50	10/5	275	6.56
COMMENT	s: 5	unde (è	) 1444	Ś											

<sup>\*</sup>INDICATOR PARAMETERS HAVE STABLIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature;

<sup>± 10</sup> mv for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity



SITE:		Form	er Hess	- Port Re	ading		CO	CONSULTING FIRM: EARTH SYSTEMS								
DATE:		2/9/	20				FIE	LD PERSON	INEL:	Ai	-					
WEATHER:		390					CI	ERTIFICATI	ON #:		130	40				
MONITOR I		_	PER - 8 260006393	32	WELL DE	1.2				SCRE	ENED/OPEN	INTERVAL:		5 - 15'		
PID/FID RE	ADINGS	(ppm):	BACKGROU BENEATH ( BENEATH I	OUTER CAP:	0.0			P INTAKE I	ER BEFORE PL	Oft below TO	7	ft belov	v TOC			40
	NG NG	pl (pH u			SPECIFIC		REDOX	DISSOLVED		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING	DEPTH	
TIME	PURGING	(SM 450		(mS/cm)			(mv)	(mg/l)	(SM 4500OG)		180.1)	(SM 2		(ml/min)	(ft below	
	a 8	READING	CHANGE.	READING	CHANGE'	READING	CHANGE.	READING	CHANGE.	READING	CHANGE'	READING	CHANGE'			
625	4	1.81	NA	6.317	NA	157	, NA	4.70	NA	122.1	NA	1418	NA	700	22	4
1000	X	7.07	6.74	0.100	53 %	10	-17	4,38	6.8	20.5	7 ×	14.67	48			
1035	¥	6.92	6.15	0.094	L 7.	147	~7	4,29	2	12.5	34%	17,97	0.94			
1640	K	6.87	0.00	0.089	5 %	191	-4	429	Ð ·/.	6.5	46 70	11.14	17			
10 45	X	6.75	0.07	0.087	2 4,	196	2	4.15	3%	4.6	29%	17.41	12			
10 50	X	6.71	0.04	0.016	1.	191	-1	7.9)	5 %	2.7	197	13.43	6123			
1055	X	6.68	0.07	0.084	2.3 %	191	-1	181	21	30	161	15.50	0,5%			
1100	K	663	0.03	5.082	2.3 4	19)	-1	3.78	1 4.	2.8	67.	15,53	17			
1105	X	6.00	6.03	0.681	1 %	194	-1	3.70	2 %	2,7	7%	15,54	l v.			
1110	X	6.57	0.03	0.080	1 1	196	-1	3.4	1 51	2.5	ファ	1557	64			
413	X	6.53	0.04	0.078	2.5%	197	1~1	2.57	3 4	2.3	87.	15.63	lo		1	_
COMMENT	rs:		•			•		•					•	II.		

<sup>&#</sup>x27;INDICATOR PARAMETERS HAVE STABLIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature;

<sup>± 10</sup> mv for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity



SITE:			Form	er Hess	- Port Re	eading		co	NSULTING	FIRM:		EARTH S	YSTEMS			
DATE:		1	1/9/	fo				FII	ELD PERSO	NNEL:		AF				
WEATHER:			400	Cles				С	ERTIFICATI	ON #:		130	040			
MONITOR				TL - 1 E201305	260	WELL DE WELL DIAME					SCR	EENED/OPEN	INTERVAL:		2 - 14'	
	**** "	•		L201303	209	WELL DIAME	TER: 4'	inches								
PID/FID RE	ADIN	igs	(ppm):	BACKGROU	JND:	0.0	う	PUM	IP INTAKE I	рертн: 9.5	_ ft below T	oc ,				
				BENEATH (	OUTER CAP:	0.0				ER BEFORE P	UMP INSTAL	LATION 6	ft belo	w TOC		
				BENEATH I	INNER CAP:	0.										
	0	NG	8	Н	1	PECIFIC	1	REDOX	1	SOLVED	TUR	BIDITY	TEMPE	RATURE	PUMPING	DEPTH TO
TIME	PURGING	SAMPLING		units) 500H+B)	(mS/cm)	(EPA 120.1)	PO	(mv)	(mg/l)	(SM 4500OG)	1.000	1 <b>TU)</b>	(degrees C) (SM 2550)		RATE	WATER
	5	SAR	READING	CHANGE.	READING	CHANGE*	READING	CHANGE.	READING	CHANGE*	READING	CHANGE*	READING	CHANGE.	(ml/min)	(ft below TOC)
905	X		677	NA	1.64	NA	-)0	NA	2.28	NA	115	NA	14.45	NA	724	6.28
910	Y		6.10	0.03	1.64	0 %	-417	-/)	0.86	WX	178	217	1557	770	10	6.45
915	X		6.79	0.61	1.59	37	-43	-1	0.68	204	133	70 1	591	) 7.		6.51
920	X		6.77	0.02	1.55	25 ×	40	3	0.63	7 %	125	67	15,89	17.		6.53
925	Ÿ		6.76	6.01	1.51	15 k	-45	-5	0,60	47,	100	4'5,	(6.0)	1 3		6.58
930	K		6.74	6.0%	1.47	2.6 %	-52	-5	0.55		109	91	16.08	17		6.60
975	Г	X	6.72	0.01	1.47	2 4.	-50	1-4	6.50	qY	99.6	63	16.15	0,4		6.67
	П				ľ			<u> </u>			11.0	1		<u> </u>		
	$\vdash$							1	<del>                                     </del>		<b> </b>		<del> </del>	<del>                                     </del>		
	$\vdash$						-	+	1			-	-	-		
-	$\vdash$	$\vdash$		1	-		-	-	-			-	-	-		-
COMMENT	S.					1										
	٠.															

<sup>&#</sup>x27;INDICATOR PARAMETERS HAVE STABLIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature;

<sup>± 10</sup> mv for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity



SHEET \_\_\_ OF

P. C  E 2  (ppm):	DACKGROUBENEATH I	72  UND: OUTER CAP: INNER CAP:	WELL DE WELL DIAME  O.  C.  ZZ1.	O O O	Inches	EPTH TO WAT	-	ft below T	EENED/OPEN		w TOC	2-15	
P. C E2	BENEATH I	72  UND: OUTER CAP: INNER CAP:	0. 221.	O O O	Inches	IMP INTAKE EPTH TO WAT	DEPTH: 7.5	ft below T	EENED/OPEN	INTERVAL:	w TOC	2-15	
(ppm):	BACKGROU BENEATH ( BENEATH I bH units)	UND: OUTER CAP: INNER CAP: SI CONI	0. 221.	O O O	Inches	EPTH TO WAT		ft below T	oc		w TOC	2-15	
	BENEATH ( BENEATH I  OH  units)  500H+B)	OUTER CAP: INNER CAP: SI CONI	©. 221.	7	DI	EPTH TO WAT				-47 ft belo	w TOC		
(pH i (SM 45 READING	<b>units)</b> 500H+B)	CONI		1	REDOX	DIS							
READING	-	SPECIFIC CONDUCTIVITY (mS/cm) (EPA 120.1)		REDOX POTENTIAL (mv)		OXYGEN (mg/l) (SM 45000G)		(NTU) (EPA 180.1)		(degrees C) (SM 2550)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
	CHANGE.	READING	CHANGE.	READING	CHANGE.	READING	CHANGE.	READING	CHANGE.	-	CHANGE.	(1111/11111)	(It below roc)
6.64	NA	0.686	NA	-122	NA	1.95	NA	1.0	NA	18.58	NA	258	5.95
6.70	0.06	0.689	10%	-143	21	0.83	570%	1-1	100%	18.85	2010	250	5.34
6.71	0.01	6.710	20/3	-135	8	0.55	380%	1.0	100	18.94	1000	250	5.94
6.73	0.02	0.721	20%	-144	9	0.49	140%	1.0	-	19.15	10%	250	5.96
6.74	0.01	0.734	20%	-151	7	0.44	1000	1.0	_	19.11	10%	250	5.96
6.76	0.02	0.750	20%	-157	6	0.41	70%	1.0	-	18.98	10/3	250	5-96
6.76	_	0.765	20%	-151	6	0.42	5010	1.0	-	19.20	20%	250	5-96
6.76	-	0.776	20%	-148	3	6,44	70%	1.0	-	19.03	10/3	250	5.90
	6.71 6.73 6.74 6.76	6.71 0.01 6.73 0.02 6.74 0.01 6.76 0.02 6.76 -	6.71 0.01 6.710 6.73 0.02 0.721 6.74 0.01 0.734 6.76 0.02 0.750 6.76 - 0.765	6.71 0.01 6.710 20% 6.73 0.02 0.721 20% 6.74 0.01 0.734 20% 6.76 0.02 0.750 20% 6.76 - 0.765 20%	6.71 0.01 6.710 20% -135 6.73 0.02 0.721 20% -144 6.74 0.01 0.734 20% -151 6.76 0.02 0.750 20% -157 6.76 - 0.765 20% -151	6.71 0.01 6.710 20% -135 8 6.73 0.02 0.721 20% -144 9 6.74 0.01 0.734 20% -151 7 6.76 0.02 0.750 20% -157 6 6.76 - 0.765 20% -151 6	6.71 0.01 6.710 20% -135 8 0.55 6.73 0.02 0.721 20% -144 9 0.49 6.74 0.01 0.734 20% -151 7 0.44 6.76 0.02 0.750 20% -157 6 0.41 6.76 - 0.765 20% -151 6 0.42	6.71 0.01 6.710 2°10 -135 8 0.55 38°16 6.73 0.02 0.721 2°10 -144 9 0.49 14°16 6.74 0.01 0.734 2°10 -151 7 0.44 10°10 6.76 0.02 0.750 2°10 -157 6 0.41 7°10 6.76 - 0.765 2°16 -151 6 0.42 5°10	6.71 0.01 6.710 2°10 -135 8 0.55 38°16 1.0 6.73 0.02 0.721 2°10 -144 9 0.49 14°16 1.0 6.74 0.01 0.734 2°10 -151 7 0.44 10°10 1.0 6.76 0.02 0.750 2°10 -157 6 0.41 7°10 1.0 6.76 - 0.765 2°16 -151 6 0.42 5°10 1.0	6.71 0.01 6.710 2°10 -135 8 0.55 38°15 1.0 105 6.73 0.02 0.721 2010 -144 9 0.49 14°16 1.0 - 6.74 0.01 0.734 2010 -151 7 0.44 10°10 1.0 - 6.76 0.02 0.750 2010 -157 6 0.41 7°10 1.0 - 6.76 - 0.765 2016 -151 6 0.42 5010 1.0 -	6.71 $0.01$ $0.710$ $20%$ $-135$ $8$ $0.55$ $38%$ $1.0$ $10%$ $18.94$ $6.73$ $0.02$ $0.721$ $20%$ $-144$ $9$ $0.49$ $14%$ $1.0$ $ 19.15$ $6.74$ $0.01$ $0.734$ $20%$ $-151$ $7$ $0.44$ $10%$ $1.0$ $ 19.11$ $6.76$ $0.02$ $0.750$ $20%$ $-157$ $6$ $0.41$ $7%$ $1.0$ $ 18.98$ $6.76$ $ 0.765$ $20%$ $-151$ $6$ $0.42$ $50%$ $1.0$ $ 19.20$	6.71 $0.01$ $0.710$ $20%$ $-135$ $8$ $0.55$ $38%$ $1.0$ $10%$ $18.94$ $10%$ $10.73$ $0.02$ $0.721$ $20%$ $-144$ $9$ $0.49$ $14%$ $1.0$ $-19.15$ $10%$ $10.74$ $10%$ $1.0$ $-19.15$ $10%$ $10.74$ $10%$ $10.01$ $10.75$ $10%$ $10.02$ $10.750$ $10%$	6.71 $0.01$ $0.710$ $20%$ $-135$ $8$ $0.55$ $38%$ $1.0$ $10%$ $18.94$ $10%$ $250$ $6.73$ $0.02$ $0.721$ $20%$ $-144$ $9$ $0.49$ $14%$ $1.0$ $-19.15$ $10%$ $250$ $6.74$ $0.01$ $0.734$ $20%$ $-151$ $7$ $0.44$ $10%$ $1.0$ $-19.11$ $10%$ $250$ $6.76$ $0.02$ $0.750$ $20%$ $-157$ $6$ $0.41$ $70%$ $1.0$ $-18.98$ $10%$ $250$ $6.76$ $-0.765$ $20%$ $-151$ $6$ $0.42$ $50%$ $1.0$ $-19.20$ $2%$ $250$

<sup>\*</sup>INDICATOR PARAMETERS HAVE STABLIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature;

<sup>± 10</sup> mv for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity



SHEET \_\_\_ OF

SITE:		F	3)100 PC	He>>-	Port Re	alias			ONSULTING	FIRM:		EARTH S	SYSTEMS			
DATE:			12	11/202	0	com;			IELD PERSO	NNEL:		ky	1	1000		
WEATHER	: _			ody :					CERTIFICAT	ION #:		13		×		
	MONITOR WELL #: TL-3 WELL DEPTH: 10' WELL PERMIT #: E2013 05271 WELL DIAMETER: 2(' Incl										SCRI	EENED/OPEN	INTERVAL		2-10	
PID/FID RE	ADII	NGS	(ppm):		UND: OUTER CAP: INNER CAP:	0.	0			DEPTH: 95			.80 ft belo	ow TOC		
TIME	RGING	APLING	(pH units) (SM 4500H+B)  READING CHANGE*		SPECIFIC CONDUCTIVITY (mS/cm) (EPA 120.1)			REDOX TENTIAL (mv)		SOLVED KYGEN (SM 4500OG)	(N	HU) 180.1)	(degrees C) (SM 2550)		PUMPING RATE	DEPTH TO WATER
	PU	SAN	READING	CHANGE.	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	(ml/min)	(ft below TOC)
12.28	X		7.17	NA	2.95	NA	-133	NA	6.48	NA	1000	NA	16.15	NA	250	7.90
1232	>		7.15	0.02	2.53	140%	-114	19	0.82	160%	1000	-	16.17	0.10%	225	7.90
1236	>		7.18	0.03	2.44	3.50%	-109	5	0.80	2.40%	1000	-	16.04	10%	225	7.91
1240	X		7.16	0.02	2.40	1.60%	-107	2	0.96	200%	1066	-	15.88	100	225	7.93
1244	×		7.15	6.01	2.38	0.80%	-101	6	1,21	20%	807	190%	15.69	140	225	7-93
1248	Y		7.13	0.02	2.37	0.40%	-94	7	1.91	5000	441	400%	15.48	143	225	7.93
1252	×		7.12	0.01	2.36	0.40/0	= 95	1	1.95	30%	402	20%	15.42	10%	225	7.93
1256	×		7.16	0.07	2.31	20/6	-93	7	1.99	20%	901	10/5	15.63	20%	225	7.94
1300	×		7.09	0.01	2.25	200	-90	3	2.16	80/3	375	60%	15.58	100	225	7.54
1344	-	×	7.14	6.05	7-20	2010	-83	7	2.22	2013	340	7%	15.36	10/3	225	7.95
COMMENT	TS:															

<sup>&#</sup>x27;INDICATOR PARAMETERS HAVE STABLIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature;

 $<sup>\</sup>pm$  10 mv for Redox Potential; and  $\pm$  10% for Dissolved Oxygen and Turbidity